PORSP 7.3.3V3

Oregon
Theodore R. Kulongoski, Governor

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April 30, 2009

Kristine Koch
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U.S. Environmental Protection Agency
1200 Sixth Avenue, Ste 900, M/S ECL-115
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RE: Milestone Report for Upland Source Control at the Portland Harbor Superfund Site

Dear Kristine,

Please find enclosed two copies of the DEQ "*Milestone Report for Upland Source Control at the Portland Harbor Superfund Site*" dated April 2009. The report will also be posted on DEQ's web site within the next two weeks.[1] DEQ will provide hard copies to project partners upon request.

DEQ continues to be an active partner with EPA in the Portland Harbor project on a number of fronts. In addition to the many source control milestones highlighted below, we continue to be an active partner to EPA in its important work completing the in-water the remedial investigation (RI), feasibility study (FS), and record of decision (ROD); in addition to our support for EPA's early actions and emerging Natural Resource Damage Assessment (NRDA) work.

As you will see below and in the report, DEQ, working with potentially responsible parties (PRPs) in the Harbor, made significant progress over this reporting period evaluating and controlling sources of contamination in Portland Harbor. Several important source control removal actions have either been recently completed, selected, or are being considered for the near future. In addition to moving forward with source control measures at a number of sites, our focus over this past reporting period has been to ensure each site has a clear path forward to evaluating and controlling sources. Each DEQ project manager identified source control goals at each site and established clear actions, timelines, and agreements to complete them. As a result, we feel confident that all significant sources will be controlled prior to or shortly after EPA's Record of Decision, now anticipated in 2012.

[1] Milestone Reports are available at www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm.

Significant Achievements

Some of the more significant achievements we've made in Portland Harbor source control in the past seven months include:

1) **Oregon Steel Mills (OSM)**- Two separate source control efforts are moving forward at the OSM site. 1st, an end-of-pipe stormwater treatment pilot has been operating since October 2007. The treatment system is currently being optimized and plans are being finalized to evaluate stormwater loading in 2009-10. 2nd, riverbank treatment source control measures are in re-design largely to resolve stakeholder concerns regarding mitigation, habitat conservation and restoration, and to incorporate bioengineering components. Final bankline source control measures are anticipated to be constructed in summer 2010.
2) **Schnitzer Steel**- Schnitzer Steel proposed a stormwater management plan in fall 2008. The plan will provide comprehensive management of stormwater including collecting stormwater from most of the site, storing the stormwater, physically treating the stormwater, reusing much of the stormwater for on-site process water in their auto shredder, and discharging the excess stormwater thru sand filters and a manifold outfall via their 1200Z permit. Schnitzer plans to begin construction of the stormwater system in summer 2009.
3) **Arco/BP**- A new permanent seawall sheetpile wall was installed in summer 2007. The sheetpile wall will enhance existing hydraulic control of contaminated groundwater. A riverbank soil and near-shore sediment removal and capping was completed in fall 2008. Approximately 13,000 cy of petroleum-contaminated soil/sediment were removed and shipped offsite for disposal. The project will be completed in summer 2009 by removing the in-river temporary sheetpile wall, final site grading, and planting.
4) **Gasco**- A Focused Feasibility Study (FFS) was submitted October 2007 for a groundwater and non-aqueous phase liquid (NAPL) source control measure (SCM). DEQ selected a vertical barrier wall/extraction well as the SCM. NW Natural completed several, and is completing several more, studies and pilot tests to support design of the SCM. A 60% design report is due in June 2009, and SCM construction is scheduled to begin in late 2009 or early 2010.
5) **Siltronic**- An FFS submitted October 2007 recommending an enhanced in-situ bioremediation (EIB) SCM for their chlorinated solvent groundwater plume. DEQ selected EIB to be applied in the release area. Siltronic applied EIB in fall 2008, has recently expanded the EIB application area, and is currently monitoring initial results from the SCM.
6) **Arkema**- Arkema is working on three separate upland source control efforts at their site. 1st, Arkema submitted an FFS for groundwater/NAPL in summer 2008. DEQ proposed selecting a slurry wall/extraction well action as the SCM. DEQ's proposed selection is currently out to Public Review. 2nd, Arkema submitted a stormwater FFS in summer 2008, DEQ expects to select a stormwater SCM in 2009, and then have Arkema construct the stormwater SCM in 2010. The focus for site stormwater management has been planning for an entirely new system which will result in the abandonment (grouting) of the old system. 3rd, Arkema evaluated their riverbank and the threat that portion of the site poses to the river. Riverbank source control will likely be incorporated into the EPA-lead in-water Early Action at Arkema. Arkema will evaluate riverbank SCM options in 2009.

7) **Rhone Poulenc**- The responsible party at Rhone Poulenc, SLLI, is working on three major upland source control efforts at their site. 1st, SLLI submitted a comprehensive SCE report in early-2008, DEQ reviewed the report, SLLI will revise the report after collecting additional hydrogeologic information to inform the conceptual site model, and submit the revised report in late-2009. 2nd, SLLI pilot tested several SCMs to treat and/or control their most significant groundwater plume threatening the river. SLLI is currently conducting an extensive groundwater pumping test to support the design of their North Front Avenue SCM which targets contaminated groundwater moving in the highly conductive deep gravel zone. SLLI proposes groundwater pump and treat as the North Front Avenue SCM. 3rd, SLLI removed accumulated sediment from Outfall 22B stormwater lines and grouted the lines to at least partially prevent contaminated groundwater from invading the lines. SLLI now plans to install impermeable liners in the stormwater lines to further prevent groundwater invasion. In addition to these three ongoing source control efforts, SLLI: 1) spent two field seasons removing drums and debris from the Doane Lake area, 2) completed an on-site Facility Structures Interim Remedial Action Measure (IRAM); and 3) completed the Groundwater Extraction and Treatment System (GETS IRAM) in 2005 designed to capture alluvial zone groundwater in the Herbicide Area.

Other Recent Achievements

1) **DEQ "*Guidance for Evaluating the Stormwater Pathway at Upland Sites*"**- DEQ issued this important guidance in January 2009. The guidance clarifies expectations for stormwater investigations, data needs and reporting, and source control requirements for project closeout. The guidance should provide clarity for site work and streamline source control decisions for stormwater.
2) **Albina River Lots (River Mile 11.3 east)**- DEQ continued site discovery and source control work in the former Albina Engine and Machine Works area, River Mile 11.3 east. River sediment in the area is contaminated with a number of Portland Harbor chemicals, including polychlorinated biphenyls (PCBs). DEQ engaged the City and PacifiCorp for the investigation of stormwater contamination in this new source area.
3) **Downtown Portland Sediment Characterization**- DEQ received the January 2009 final report on the Downtown Portland Sediment Characterization project directly upstream of Portland Harbor. The purpose of the investigation is to supplement the existing limited sediment quality data, and to gain a better understanding of the nature and extent of hazardous substances in the downtown reach. DEQ is reviewing the report and determining the next steps, including additional sampling to address data gaps.
4) **Portland Manufactured Gas Plant Site**- DEQ and NW Natural recently initiated source control evaluation of the former Portland Manufactured Gas Plant site at the west end of the Steel Bridge (River Mile 12.2 west, ECSI # 1138).
5) **DEQ Staff Resources**- Late last year, DEQ hired a GIS coordinator who will help supplement our staff resources working on the Portland Harbor project. DEQ also hired a project manager in January 2009 who will oversee source control work at the Gunderson site.

General Status

DEQ believes we have identified all of the significant upland sources threatening the river in the Portland Harbor Study area. All of these sites are under agreement to complete source control

evaluations (SCE) or develop and/or construct source control measures (SCMs). Where progress has been lagging or delayed, DEQ worked to clarify source control expectations and timing, and provide guidance for expected work.

DEQ is primarily focusing on completing SCEs and implementing SCMs at High Priority sites. While much work remains to be done, we've made significant progress in all the High Priority sites, and for the majority of the High Priority sites, the stormwater pathway is the only remaining contaminant migration pathway that needs to be evaluated. Furthermore, interim SCMs are in-place in 11 of the 16 High Priority sites.

Focus for the Future

The primary focus for the future will continue to be completing SCEs and implementing SCMs at the Portland Harbor High Priority sites. With our new stormwater guidance, and further refinement of the in-water RI, we should also be able to close out many stormwater pathway sites we are working on. Continued progress at stormwater sites, as well as the implementation of groundwater and bankline remedies will help inform broader source control tools and actions that will be required in order to achieve our shared objectives for a healthy river.

As you review the April 2009 Milestone Report, please contact me or Matt McClincy with any suggestions, comments, or questions.

Thank you for your continued assistance in coordinating EPA's support to DEQ on Portland Harbor source control work. Please let us know if you would like to convene a meeting with DEQ and interested EPA partners to discuss the April 2009 Milestone Report, including site prioritization and source control progress.

We anticipate submitting the next Milestone Report in October 2009.

Sincerely,

James M Anderson, Manager
Portland Harbor Section

cc: Matt McClincy, DEQ/NWR (without report)
Keith Johnson, DEQ/NWR (without report)
Dick Pedersen, DEQ/HQ (without report)
Nina DeConcini, DEQ/NWR (without report)
EPA Oregon Operations Office (full report)

Milestone Report

for Upland Source Control at the Portland Harbor Superfund Site

April 2009

Prepared by the Oregon Department of Environmental Quality

State of Oregon
Department of Environmental Quality

This document is posted on DEQ's web page at
http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm.

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Attachments

1.0 Introduction

On December 1, 2000, a section of the lower Willamette River within the City of Portland, the Portland Harbor, was added to the Superfund National Priority List (NPL). In February 2001, the Oregon Department of Environmental Quality (DEQ), United States Environmental Protection Agency (EPA), and other governmental parties[1] signed a Memorandum of Understanding (MOU) that provided a framework for cooperation in the investigation and cleanup of the Portland Harbor Superfund Site to optimize federal, state, tribal and trustee expertise and available resources.

Under the 2001 MOU, EPA was designated as the Lead Agency for investigating and cleaning up "in-water" contamination in the Harbor, i.e., contamination in the river water and underlying sediment using federal Superfund authorities. DEQ, using state cleanup authority, was designated as the Lead Agency for identifying and controlling "upland" sources of contamination, i.e., those sources of pollution adjacent to or near the river that may be contaminating river water or sediments. To coordinate in-water cleanup and upland source control work, the MOU directed DEQ and EPA to jointly develop a source control strategy that defines a process for identifying and controlling potential sources of contamination threatening the river.

DEQ and EPA finalized the Portland Harbor Joint Source Control Strategy (JSCS) in December 2005[2]. The overarching goal of the JSCS is to identify, evaluate and control sources of contamination that may affect the Willamette River in coordination with the objectives and schedule for the Portland Harbor remedial investigation and feasibility study (RI/FS). Upland source control is necessary to allow cleanup of the river to proceed without risk of significant recontamination. DEQ is currently implementing the JSCS in the Portland Harbor Superfund Site study area – approximately River Mile 1 to River Mile 11.8[3].

The JSCS requires DEQ to prepare a Milestone Report on a quarterly basis that summarizes the status of DEQ's upland source control work. The report submittal schedule has been changed to bi-yearly. This is the seventh Milestone Report. Milestone Reports are submitted to EPA, and provide the basis for potential meetings with EPA and our government partners to discuss site prioritization and source control progress. These reports also serve as documentation of progress on river-wide source control within Portland Harbor.

1.1 Organization of the Milestone Report

The Milestone Report is organized as follows.

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[1] The signatory partners to the MOU include the EPA, DEQ, Confederated Tribes and Bands of the Yakama Nation, Confederated Tribes of the Grand Ronde Community of Oregon, Confederated Tribes of Siletz Indians, Confederated Tribes of the Umatilla Indian Reservation, Confederated Tribes of the Warm Springs Reservation of Oregon, Nez Perce Tribe, National Oceanic and Atmospheric Administration, Oregon Department of Fish and Wildlife, and U.S. Department of the Interior.

[2] The JSCS is available on DEQ's web site at http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm click "Joint Source Control Strategy" on the left side bar.

[3] "River Mile" indicates the distance from the Willamette River's confluence with the Columbia River (i.e., River Mile 11.8 is 11.8 miles upstream of the confluence).

- Section 2.0: Identifying Potential Sources of Contamination in Portland Harbor – This section describes DEQ's work to identify potential sources of contamination to the Willamette River in Portland Harbor, including site discovery and site assessment activities.
- Section 3.0: Evaluating Potential Sources of Contamination to the River – This section describes DEQ's status and schedule for the evaluation of all confirmed or suspected upland sources of contamination to Portland Harbor, as summarized in Table 1.
- Section 4.0: Taking Measures to Control Sources and Making Source Control Decisions – This section describes the source control measures used at upland sites in Portland Harbor and the process for making source control decisions, including coordination with EPA and our government partners, and public involvement opportunities. Source control measures and decisions are summarized in Table 1.
- Section 5.0: Status of Ongoing and Completed Source Control Activities – This section describes the information presented in Table 1 that summarizes the status of ongoing and completed source control measures. This section also describes the specific status of the 16 High Priority and Preliminary High Priority sites (Table 2). This section also presents five specific source control goals designed to help DEQ focus our efforts to achieve the overarching goal of source control.
- Section 6.0: Issues Encountered in Source Control Work – This section describes issues affecting DEQ's ability to conduct source control work and identifies paths forward towards resolution.
- Section 7.0: Summary – This section summarizes the overall status of source control work in Portland Harbor, highlighting accomplishments, key issues and next steps for moving forward.
- Section 8.0: Obtaining Additional Information on Upland Source Control Work – This section indicates where additional information can be found on the status of source control work at upland sites in Portland Harbor.
- Section 9.0: Information on Table 1: Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor – This section provides helpful information for interpreting Table 1, including definition of key terms and acronyms used.

2.0 Identifying Potential Sources of Contamination in Portland Harbor

DEQ's strategy for identifying and investigating potential sources of contamination to Portland Harbor prior to the December 2000 Superfund Site listing was described in the March 2006 Milestone Report. Those site identification and investigation activities were initially focused on a six-mile stretch of the lower Willamette River (now known as the Initial Study Area) extending from the southern tip of Sauvie Island upstream to Swan Island, from approximately River Mile 3.5 to River Mile 9.2. For more information, please see the March 2006 Milestone Report at www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm.

2.1 Recent Site Discovery and Site Assessment activities

As the Portland Harbor study area grew to include nearly an 11-mile stretch of the lower Willamette River extending from River Mile 1 to River Mile 11.8, DEQ's site discovery and site assessment efforts have expanded with it.

DEQ focused our recent site discovery and site assessment work on identifying potential sources of contamination threatening the river through stormwater that is piped to the river from surrounding upland areas. As described below, a number of stormwater data collection efforts were completed or are being conducted, and are being used by DEQ to target our source identification efforts.

City of Portland Municipal Stormwater System

DEQ is working closely with the City of Portland to identify upland sources contributing contamination via both the City's municipal stormwater system and private stormwater systems. The City continues its efforts to identify potential sources of contaminants by collecting solids and/or stormwater samples from stormwater pipes from select locations within their stormwater system. In the past, DEQ used this type of information within Outfall Basin 18 (a high priority outfall basin based on Round 2 river sediment data) to identify at least two new sites (Wilhelm Trucking and Container Management) that have entered DEQ's Cleanup Program and will complete stormwater investigations and source control measures. During the 2007-2008 rain season, the City targeted two areas for additional data collection. One is the Outfall 18 basin, where the City installed in-line sediment traps in several strategic locations to provide additional information to aid in source/site identification. The Outfall 18 basin is a complex basin with a long history of heavy industry, and there is still uncertainty as to whether all sources have been identified.

River Mile 11-East Focused Stormwater Investigation

Round 3 Portland Harbor sediment data collected by the Lower Willamette Group identified sediments contaminated by polychlorinated biphenyls (PCBs) in the River Mile (RM) 11-11.8 east area. Our current conceptual model is that the sediment contamination is largely due to past releases from historic operations in the area, but that current stormwater and bank erosion pathways may still exist. The City is implementing a sampling plan in three outfall basins on the east side of the river between RM 11 and 11.8 (Outfalls 43, 44, and 44A). This is part of a comprehensive source identification effort in the area that DEQ initiated in 2008. DEQ is also working with PacifiCorp to evaluate whether source control measures at their sites in this area will be needed.

Other Source Investigations

DEQ and the City are beginning to review stormwater and solids data collected by the City from other outfall basins in 2007 and 2008. To date, two outfall basins were determined to be areas where additional source identification may be warranted (Outfall 53A and Outfall 52). In both instances, it is a result of finding PCB concentrations that were higher than expected based upon our understanding of historical and current land uses in those areas. DEQ and the City are working together to undertake additional source control identification work in these basins.

Lower Willamette Group (LWG) Stormwater Sampling

The LWG completed an extensive Portland Harbor stormwater sampling effort in 2007-2008 to provide data for evaluating the potential risk related to in-river fish tissue chemical burdens and sediment recontamination potential from stormwater discharges to the river. The LWG obtained stormwater information from 31 locations in Portland Harbor. The sampling rationale involves using "representative" estimates of stormwater chemical concentrations for various land-use types, and using a land-use-based chemical load modeling approach to estimate stormwater loads across the entire Site.

The stormwater and sediment trap data generated from the LWG's 2007-2008 sampling efforts are currently being evaluated and used to develop average contaminant concentrations for different types of land uses. The results should be available for review later this year. The land-use concentrations are expected to be used in modeling efforts associated with the Portland Harbor Feasibility Study. In a coarse sense, the results may also serve as a tool for gauging whether contaminant concentrations from a specific location are higher or lower than what might be expected for that land use.

While the primary objective of this data collection effort was to develop generic contaminant loading rates for land-use categories, DEQ will be able to use the data collected at individual sampling locations to augment our source control investigations at these sites, and to help target and prioritize our source identification activities harbor-wide. Evaluating and controlling stormwater inputs into the Harbor will continue to be a focus for DEQ in the years to come.

2.2 Downtown Portland Willamette River Sediment Investigation

DEQ is working with the City of Portland and other partners to investigate sediment quality in the Willamette River upstream of the Portland Harbor in downtown Portland. The purpose of the investigation is to supplement the existing limited sediment quality data, and to gain a better understanding of the nature and extent of hazardous substances in the downtown reach. The investigation collected surface sediment and/or cores samples from nearly 80 locations. Samples were analyzed for the wide variety of contaminants.

Investigation results will be used to help assess area-wide sediment conditions, the potential threat of recontamination downtown reach sediment poses to Portland Harbor, and identification of sources of contamination for sediment. If environmental problems are identified, effective remedies will be implemented to control sources and cleanup significant sediment contamination.

The field work for the downtown reach sediment investigation was completed in June 2008. *A* final data summary report, titled "*Field and Data Report, Downtown Portland Sediment Characterization*" was submitted in January 2009. That report can be reviewed at http://www.deq.state.or.us/lq/cu/nwr/willametteriver.htm

DEQ will evaluate the summary report and recommend the next steps as appropriate to manage contamination found in river sediment and any associated uncontrolled sources to the river.

3.0 Evaluating Potential Sources of Contamination to the River

DEQ is investigating or directing source control work at over 60 upland sites in Portland Harbor. Preliminary investigation activities at these sites are designed to determine whether the site is a potential or ongoing source of contamination to the river. These investigations, or "source control evaluations," consider all potential, current and historic contaminant sources and pathways for the contaminants to migrate to the river. Potential pathways include:

- Direct discharges – Pollutants from commercial, industrial, private or municipal outfalls are being discharged directly to the Portland Harbor Superfund Site. Many of these discharges are permitted (general or individual permits) under the Clean Water Act National Pollutant Discharge Elimination System (NPDES). Permitted discharges include industrial wastes, stormwater runoff, and combined sewer overflows (CSOs)[4].
- Groundwater – Contaminated groundwater may enter the river directly via discharge through sediments, bank seeps, or it may infiltrate into storm drains/pipes, ditches or creeks that discharge to the river. Contaminant migration may occur as non-aqueous phase liquids (NAPLs) or as chemicals dissolved in the groundwater itself.
- Stormwater – Contaminants may be carried to the river by water that runs off a site into storm drains after it rains, delivered to the river by stormwater pipes (including permitted and unpermitted stormwater discharges).
- Overland transport/sheet flow – The uncontrolled flow of water from a site to the river and the transport of other materials from a site may deliver contaminants to the river.
- Bank erosion/leaching – River bank soil, contaminated fill, waste piles, landfills and surface impoundments may release contaminants directly to the river through erosion, via soil erosion to stormwater, or by leaching to groundwater.
- Overwater activities – Contaminants from overwater activities (e.g., sandblasting, painting, unloading, maintenance, repair and operations) at riverside docks, wharves, or piers; discharges from vessels (e.g., gray, bilge, ballast waters); full releases; and spills may affect the river.

These potential contaminant migration pathways are evaluated for each site, and upland contaminant concentrations are screened against conservative screening level values (SLVs) protective of human health and the environment. Sites that are identified as significant current or potential sources of pollution to the river are characterized and prioritized. Based on the resulting priority, either further source control evaluation is completed or source control measures are initiated.

Table 1 provides a summary of confirmed and suspected upland sources of contamination to the river that DEQ is either actively working on or has finished source control work on by issuing a

[4] CSO events are untreated discharges of combined stormwater, sanitary sewage from residential, commercial, and industrial sources that overflow from the sewer system into the river during heavy rainfall periods when the amount of stormwater and sewage exceeds the capacity of the collection system.

final source control decision. Table 1 also provides the basis for the determination that a site is a source of contamination to the river, the status of and schedule for source control evaluation, and the priority of the site for source control. The table includes the priority of each contaminant migration pathway for each site, as well as the overall priority of the site based on the pathway priorities.

High priority sites are identified in the table based on existing site information, and subsequent Milestone Reports will identify any new high priority sites as new information becomes available. Source control is expected to move forward at high priority sites without delay.

4.0 Taking Measures to Control Sources and Making Source Control Decisions

DEQ determines the need for source control measures at each upland site, in consultation with EPA, based on the completeness of contaminant migration pathways, exceedances of SLV, and other factors as appropriate. See p. 3-1 through 3-6 of the JSCS for more information about SLVs, and p. 4-1 through 4-10 of the JSCS for more information about the source control decision process.

4.1 Types of source control measures

Upland source control is an iterative process, where early steps may be revisited and conclusions refined by information gathered later in the process. A combination of tools may be used to control a source, including but not limited to the following.

- Technical assistance – Technical assistance, often provided during inspections, provides technical information designed to help individual businesses bring their facilities into compliance with environmental regulations. DEQ's Hazardous Waste Program has and continues to provide technical assistance to facilities within the Portland Harbor Superfund Site area.
- Cleaning-up contaminated upland areas – Cleanup work addresses contaminated soil, groundwater, stormwater and other sources and focuses on reducing or eliminating contaminant migration to the river. Common source control measures include removing highly contaminated soil areas, stabilizing or capping contaminated bank areas, treating or containing contaminated groundwater, and extracting contaminated sediment from storm sewer systems. Source control measures vary from site to site.
- Source control of active discharges – Tools to control active discharges include best management practices (BMPs), industrial process changes, pollution prevention practices, and technology-based effluent controls. Compliance is achieved voluntarily or through administrative actions, including permits or enforcement.
- Source control of stormwater – Stormwater source control is complex because storm drain systems capture discharges from many different sources (e.g., land use activities, runoff from contaminated sites, and infiltration of contaminated groundwater into the storm drain system). Stormwater regulation also involves state and local agencies implementing MS4 and 1200Z general stormwater permits. Because of this complexity, all of the tools described above are useful for stormwater source control and will be used as appropriate.

- Administrative actions and enforcement – Administrative actions include licenses, permits, deed restrictions, requirements for site development plans, and enforcement actions, which may be necessary when administrative actions are violated. Agencies rarely take enforcement actions without first conducting an inspection and documenting findings, requested changes, warnings and offers of technical assistance. When enforcement actions are warranted, they are usually taken in escalating order, starting with notices of violation, moving to enforcement or compliance orders requiring specific changes by a set date, and ending with monetary penalties, court action or DEQ's takeover of investigation or cleanup work. Formal cleanup actions performed under an order or decree use oversight and enforcement to ensure that appropriate actions are taken in a timely manner.

Table 1 summarizes source control decisions conducted at upland sites, the basis for the determination that upland source control measures are necessary, a summary of the selected source control measure(s), and a schedule for implementing the source control measure(s). Figure 1-a-c displays most sites listed in Table 1.

4.2 DEQ coordination with EPA and partners on source control decisions

As the Lead Agency for identifying and controlling sources of upland contamination threatening the river in Portland Harbor, DEQ coordinates with EPA and our government partners on source control work. This includes documenting, tracking and coordinating source control efforts as described in Sections 2.5 and 7 of the JSCS.

DEQ will provide EPA and our partners an opportunity to review and comment on source control decisions prior to being finalized. These decisions typically fall into the following three categories.

- DEQ determined that a site is not a current or future significant source of contaminants to Portland Harbor and that no source control measures are required.
- DEQ selected the source control measures for a site.
- DEQ concluded that source control at a site is complete, or in the case of systems that require operation and maintenance (e.g., hydraulic containment), that the source control action is effective.

DEQ will inform EPA and our partners of pending source control decisions and the schedule for review, and will provide copies of source control decision documentation to EPA and partners upon request. EPA and partners will have 30 days to provide comments to DEQ on source control decisions.

In addition to this regular review and comment process, some upland sites in Portland Harbor may warrant closer coordination between DEQ, EPA, and our partners for source control (e.g., the Gasco site and potential source control measures for the chlorinated solvent groundwater plume at the Siltronic site). In these instances, DEQ and EPA source control coordinators will develop project-specific coordination strategies.

4.3 Public involvement in source control decisions

DEQ Cleanup Program statutes and rules require that a public notice and comment opportunity be provided prior to DEQ's selection of a final site cleanup remedy and before DEQ determines

that the cleanup is complete. For upland Portland Harbor cleanup projects, this means that DEQ issues a public notice and seeks public comments on the recommended final site cleanup strategy. Once public input is considered, DEQ's final decision is typically documented in a Record of Decision (ROD) for the site. For most sites, the upland DEQ ROD includes elements that address both source control for Portland Harbor and cleanup actions specific to areas of upland contamination that are not related to pollution in the Harbor.

Many of the source control measures implemented at upland sites are conducted prior to the selection of the final upland site-wide remedy. While public notice and comment is not required for these "interim" removal actions under DEQ statutes and rules, DEQ typically issues a public notice and seeks public comments when the action is likely to be a substantive piece of the final site remedy, or as the DEQ project manager determines is appropriate.

DEQ does not typically seek public comments for small-scale interim source control measures and time critical actions. Project managers will, however, issue notices as appropriate to let the public know that the activity is being conducted.

5.0 Status of Ongoing and Completed Source Control Activities

Table 1 summarizes the status of ongoing source control activities; including source control evaluations (SCEs), source control decisions (SCDs), and source control measures (SCMs). Table 1 also provides information on source control activities completed to date, proposed SCM activities, and a target schedule for completion. To the extent practicable, DEQ has collected information and/or made estimates of the mass or volume of contaminants removed, contained, treated or otherwise controlled, to help demonstrate the progress of source control activities.

Table 1 also summarizes completed SCMs and provides the date that the SCM was completed, the date of EPA review and comment, and any operation and maintenance requirements associated with the SCM.

As of April 2009, the DEQ categorized 84 sites (see Table 1) into the following source control categories:

High Priority Sites- 8
Preliminary High Priority Sites- 8
Medium Priority Sites- 13
Low Priority Sites- 22
Priority "To Be Determined" Sites- 11
Sites with Source Control Decisions- 22

The status of High Priority and Preliminary High Priority sites is presented in Table 2. Eleven of the 16 High Priority sites currently have at least interim SCMs in place. Some of the more important actions in-place or anticipated at the High Priority sites include:

-**Oregon Steel Mills**- Two separate source control efforts are moving forward at the SOM site. 1st, an end-of-pipe stormwater treatment pilot has been operating since October 2007. The treatment system is currently being optimized and plans are being finalized to evaluate stormwater loading in 2009-2010. 2nd, riverbank treatment source control

measures are in re-design largely to resolve stakeholder concerns regarding mitigation, habitat conservation and restoration, and to incorporate bioengineering components. Final bankline source control measures are anticipated to be constructed in summer 2010.

-**Schnitzer Steel**- Schnitzer Steel proposed a stormwater management plan in fall 2008. The plan will provide comprehensive management of stormwater including collecting stormwater from most of the site, storing the stormwater, physically treating the stormwater, reusing much of the stormwater for on-site process water in their auto shredder, and discharging excess stormwater thru sand filters and a manifold outfall via their 1200Z permit. Schnitzer plans to begin construction of the stormwater system in summer 2009.

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-**Gasco**- A Focused Feasibility Study (FFS) was submitted October 2007 for a groundwater NAPL SCM. DEQ selected a vertical barrier wall/extraction well as the SCM. NW Natural completed several, and is completing several more, studies and pilot tests to support design of the SCM. A 60% design report is due in June 2009, and SCM construction is scheduled to begin in late-2009 or early-2010.

-**Siltronics**- An FFS submitted October 2007 recommending an enhanced in-situ bioremediation (EIB) SCM for their chlorinated solvent groundwater plume. DEQ selected EIB to be applied in the release area. Siltronic applied EIB in fall 2008, has recently expanded the EIB application area, and is currently monitoring initial results from the SCM.

-**Arkema**- Arkema is working on three separate upland source control efforts at their site. 1st, Arkema submitted an FFS for groundwater/NAPL in summer 2008. DEQ proposed selecting a slurry wall/extraction well as the SCM. DEQ's proposed selection is currently out to Public Review. 2nd, Arkema submitted a stormwater FFS in summer 2008, DEQ expects to select a stormwater SCM in 2009, and then have Arkema construct the stormwater SCM in 2010. The focus for site stormwater management has been planning for an entirely new system which will result in the abandonment (grouting) of the old system. 3rd, Arkema evaluated their riverbank and the threat that portion of the site poses to the river. Riverbank source control will likely be incorporated into the EPA-lead in-water Early Action at Arkema. Arkema will evaluate riverbank SCM options in 2009.

-**Rhone-Poulenc**- The responsible party at Rhone Poulenc, SLLI, is working on three major upland source control/evaluation efforts at their site. 1st, SLLI submitted a comprehensive SCE report in early-2008, DEQ reviewed the report, SLLI will revise the report after collecting additional hydrogeologic information to inform the conceptual site model, and submit the revised report in late-2009.. 2nd, SLLI pilot tested several SCMs to treat and/or control their most significant groundwater plume threatening the river. SLLI is currently conducting an extensive groundwater pumping test to support the design of their North Front Avenue SCM which targets contaminated groundwater moving in the highly conductive deep gravel zone. SLLI proposes groundwater pump and treat as the North Front Avenue SCM. 3rd, SLLI removed accumulated sediment from Outfall 22B

stormwater lines and grouted the lines to at least partially prevent contaminated groundwater from invading the lines. SLLI now plans to install impermeable liners in the stormwater lines to further prevent groundwater invasion. In addition to these three ongoing source control efforts, SLLI: 1) spent two field seasons removing drums and debris from the Doane Lake area, 2) completed an on-site Facility Structures Interim Remedial Action Measure (IRAM); and 3) completed the Groundwater Extraction and Treatment System (GETS IRAM) in 2005 designed to capture alluvial zone groundwater in the Herbicide Area.

DEQ developed five specific goals for our source control efforts. These goals will track DEQ source control efforts to achieve the overarching goal of source control: to identify, evaluate and control sources of contamination that may affect the Willamette River in a manner that is consistent with the objectives and schedule for the Portland Harbor RI/FS.

The goals described below are aggressive goals that were based on an anticipated ROD date of 2010. While much progress has been made to reach these goals, some remain outstanding. Some of the reasons these goals have not been achieved include the complexity of the work, work load for both DEQ and upland responsible parties, and obstacles in implementing the work. While all the goals have not been met, DEQ believes these sites remain on-track to achieve source control at the High Priority sites by the time of the Portland Harbor ROD. The Portland Harbor ROD is now anticipated to be completed in late-2012. Dates for the goals below have been adjusted to better reflect the current status and the new anticipated ROD date.

Goals and Status for High Priority Sites

Goal 1- Source Control Evaluations (SCE) completed at all High Priority sites by 1/1/10.

Goal 1 Status as of 4/09

-2 of 16 SCEs completed

-7 of 16 SCEs to be completed in 2009

-Of the 6 remaining High Priority sites (16 minus 9) that are either not completed or are not on schedule to be completed by 2009..., stormwater is the only outstanding pathway to be completed in 2 of the 6 sites.

Goal 2- SCMs selected at all High Priority sites by 7/1/10.

Goal 2 Status as of 4/09

-Interim or final SCMs have been selected and have been implemented at 11 of 16 sites. These sites include: 1) Oregon Steel Mills (stormwater), 2) Schnitzer Steel (stormwater), 3) Kinder Morgan Linnton (groundwater), 4) Exxon/Mobil (groundwater), 5) Arco/BP (groundwater), 6) MarCom South (overland runoff), 7) Siltronic (groundwater), 8) Rhone Poulenc (groundwater), 9) Arkema (groundwater), 10) Willbridge (groundwater), and 11) Gunderson (groundwater).

-Selection of SCMs at other High Priority sites is anticipated over the next 6-12 months. For instance, DEQ selected a significant SCM at the Gasco site in March 2008. NW Natural is currently completing field work to support the detailed design of this SCM, a vertical barrier wall/groundwater extraction well system. Another example is the Oregon Steel Mills where the responsible party is negotiating the design of the riverbank treatment with DEQ and our partners.

Goal 3- SCMs constructed and effectively operating at all High Priority sites by 1/1/12.

Goal 3 Status as of 4/09

-4 of 16 sites have effective groundwater SCMs operating. These 4 sites include: 1) Exxon/Mobil, 2) Gunderson, 3) Willbridge, and 4) Arco/BP.

Goals and Status for Medium and Low Priority Sites

Goal 4- SCE completed at all Medium and Low Priority sites by 1/1/11

Goal 4 Status as of 4/09

-While none of the 13 Medium Priority or 22 Low Priority sites currently have completed SCEs, all of the sites are on schedule to be completed in 2011, and many of them before 2011. Stormwater is the only outstanding pathway to be completed for the SCE in 4 of the Medium Priority sites and 7 of the Low Priority sites.

-Interim SCM have been implemented at 18 of 35 Low and Medium Priority sites.

Goals and Status for Priority "To Be Determined (TBD)" Sites

Goal 5- Completed prioritization at all TBD sites by 1/1/10.

Goal 5 Status as of 4/09

-2 of the 11 sites are EPA-lead sites (Vanwaters-&-Rogers & US Moorings).

-9 non-EPA-lead TBD sites are left to be prioritized and they are scheduled to be prioritized in 2009.

6.0 Issues Encountered in Source Control Work

This section summarizes issues affecting DEQ's complete source control work. This section also presents the steps DEQ is taking to resolve the issues and complete source control work at those sites.

Issue 1: Moving projects through the source control process

Certain DEQ Portland Harbor cleanup projects are not proceeding through the source control process at an acceptable pace. Source control activities at these sites need to be accelerated in order to identify, evaluate and control upland contaminant sources before the Portland Harbor Record of Decision (ROD).

To resolve this issue, DEQ first identified these sites and then worked to accelerate their schedules for source control efforts. DEQ identified following sites in the March 2006 Milestone Report, and these sites remain a high priority for accelerated source control. Below is a summary of the status of each site.

- **Schnitzer Steel**

  Problem: The responsible party (RP) implemented a number of stormwater upgrades and best management practices over the last several years, but site characterization/source control evaluation needs to be completed. Furthermore, recent LWG stormwater sampling at the Schnitzer Steel area indicates high levels of PCBs in stormwater. Schnitzer submitted a draft RI report, but the stormwater pathway still needs to be evaluated.

Path to resolving: Schnitzer needs to complete a full Source Control Evaluation for their property. Note that we separated the Schnitzer Steel site from the Schnitzer Burgard Industrial Park site in this Milestone Report.
Progress made since September 2008 Milestone Report: Schnitzer submitted a draft Source Control Evaluation report in 4/07. Significant additional SCE is needed. DEQ expects a comprehensive SCE to be submitted in 2010. As described in Section 5 of this report, Schnitzer Steel proposed a comprehensive new stormwater management plan in fall 2008. The plan includes collecting stormwater from most of the site, storing the stormwater, physically treating the stormwater, reusing much of the stormwater for on-site process water in their auto shredder, and discharging excess stormwater thru sand filters and a manifold outfall via their 1200Z permit.

- **GS Roofing**
  Problem: The DEQ project manger overseeing work at GS Roofing left DEQ in 2007, and the vacant position was not filled in a timely manner due to agency budget constraints. This has affected the progress of source control work at the site.
  Path to Resolving: DEQ made GS Roofing site a priority for staffing and accelerated source control work. GS Roofing conducted independent investigations of the facility. The next step in the project is for DEQ to review this information and provide direction regarding what additional work is required and a schedule for this work.
  Progress made since September 2008 Milestone Report: DEQ recently assigned a new project team to the GS Roofing site. The responsible party is finalizing a stormwater investigation plan for sampling in 2009.

Issue 2: Completing source control at the Gasco site
NW Natural's Gasco site (which includes NW Natural's manufactured gas plant contamination on the Siltronic site) is a High Priority site for upland source control. The distribution and magnitude of upland contamination at the Gasco site is extensive and very significant. DEQ directed NW Natural to collect data to support the selection, design, installation and operation of source control measures, rather than conducting further source control evaluation. NW Natural and DEQ agreed to a schedule for a phased approach to design and implementation of source control measures by 2008. While the actual construction of the SCM has been delayed until late 2009 or early 2010, NW Natural continues to move forward with recent work that supports source control planning and design along the shoreline of the Gasco and Siltronic properties, including the following:

- NW Natural submitted a draft Groundwater/NAPL Focused Feasibility Study (FFS) for upland source control in fall 2007. DEQ approved the FFS in concept in 3/08. DEQ selected a combination vertical barrier wall and groundwater extraction system in Segment 1, the main portion of the manufactured gas plant (MGP) waste.
- NW Natural completed the field work for a Vibration Analysis Study which assessed potential impacts to the neighboring Siltronic's operations from different source control construction methods and configurations. The results of the Vibration Analysis Study are currently being evaluated. DEQ also directed NW Natural to complete a DNAPL Mobility Study in the source control area. Both studies will be used in the design of the combination well/wall SCM.
- Evaluation of groundwater hydraulic containment and groundwater treatment designs.

- Implementation of a DEQ-approved work plan to complete the characterization of impacts associated with the historical manufactured gas plant activities on the Siltronic property.

Issue 3: DEQ staff resource limitations

Limited staff resources have affected DEQ's ability to conduct and complete source control work in Portland Harbor. Over the last 2 years DEQ hired four new project managers to work on Portland Harbor projects and other projects. We also recently hired a DEQ Cleanup Program GIS Coordinator to help with both state-wide and Portland Harbor needs, and hired an experienced Project Manager to manage the Gunderson project.

DEQ is continually looking at staff work load and developing priorities to address the most important work. DEQ will continue Portland Harbor source control efforts focusing on the most significant and potentially significant upland sources.

Issue 4: Stormwater evaluation and control

Stormwater evaluations are either underway, completed, or judged not needed at approximately 90 Portland Harbor sites; and approximately 20 additional sites are expected to begin stormwater evaluations within the next year. This includes several upland sites and City outfalls in the vicinity of RM 11 on the east side of the river. This area came to DEQ's attention as a result of Round 3 sediment sampling efforts that detected elevated PCB concentrations in river sediment in this area. In addition, DEQ is working with the City on various site discovery and source identification efforts to determine whether there may be additional sites in the harbor that also warrant some level of stormwater evaluation and control. At present, DEQ identified approximately 10 sites that will be given further consideration.

To support our stormwater evaluation efforts, DEQ drafted and finalized a guidance document in 1/09 that provides direction to DEQ project managers on making source control decisions for the stormwater pathway at cleanup sites. The guidance ("*Guidance for Evaluating the Stormwater Pathway at Upland Sites*") also includes appendices aimed at providing responsible parties with clear instructions for conducting the evaluation in a manner that will meet DEQ's expectations. The guidance can be found at:

http://www.deq.state.or.us/lq/cu/stmwtrguidance.htm

DEQ is also drafting an overall strategy for addressing stormwater in Portland Harbor. DEQ met with EPA several times in 2008 to present the strategy's framework and discuss how preliminary modeling results support the strategy. There are plans to continue this conversation in the future. DEQ hopes to receive EPA's support for the strategy so that DEQ and Portland Harbor responsible parties can continue to implement stormwater source control with confidence and consistent with anticipated Portland Harbor ROD and long-term goals for the river in this area.

DEQ anticipates that the strategy will include an evaluation of existing stormwater permits (e.g., NPDES 1200Z general stormwater permits and NPDES municipal stormwater permits) to determine whether it is appropriate to establish a new general permit for the Portland Harbor area similar to the 1200COLS permit for the Columbia Slough area. Such a permit would be

designed to address specific risks from stormwater in the Portland Harbor area. DEQ's Cleanup Program is discussing this issue with our Water Quality Program to determine how an evaluation could be conducted and, if necessary, how the two programs would work together to adopt new or revised permits.

Finally, DEQ is working with EPA and other partners to reach agreement on the methodology for developing land-use loading rates using the stormwater data collected by the LWG over the past two years. The loading rates are intended to be used in the LWG's modeling efforts for the Portland Harbor risk assessment to help understand the impacts of the stormwater and other contaminant sources on sediment, surface water, and fish tissue.

7.0 Summary

DEQ is making significant progress in controlling sources of contamination to the lower Willamette River in Portland Harbor, and is coordinating resources of its Cleanup, Hazardous and Solid Waste, Water Quality and Spills Programs to achieve upland source control objectives by the expected time of the Portland Harbor Record of Decision or shortly after. To date, DEQ has identified more than 80 upland sites that may be potential sources of contaminants in Portland Harbor, and most of these sites have been prioritized for additional investigation or source control. Additionally, DEQ evaluated a number of sites in our site discovery process throughout the Portland Harbor project and concluded these sites do not threaten the river.

As of April 2009, the DEQ categorized 84 sites (see Table 1) into the following source control categories:

High Priority Sites- 8
Preliminary High Priority Sites- 8
Medium Priority Sites- 13
Low Priority Sites- 22
Priority To Be Determined Sites- 11
Sites with Source Control Decisions- 22

DEQ will submit a Milestone Report to EPA twice a year, with the next Milestone Report scheduled for October 2009, and update Table 1 and Table 2 with the current status of source control work at all upland sites. For more information about the Milestone Report or DEQ's source control work generally, please contact Jim Anderson, DEQ Portland Harbor Project Manager, at (503) 229-6825, or anderson.jim@deq.state.or.us.

8.0 Obtaining Additional Information on Upland Source Control Work

For more information on DEQ's source control work at any of the sites listed in Table 1, see DEQ's Portland Harbor web page (http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/index.htm) and click on "Upland Sites map" in the right hand corner. This link provides a map showing all Portland Harbor upland sites and summary reports of the status of source control work. Just open the map and click on the site you are interested in to connect to DEQ's Environmental Cleanup Site Information (ESCI) database, which houses current information on work at each site.

Alternatively, contact the DEQ project manager (PM) that is leading work on the site you are interested in. Contact information for each DEQ PM is listed on the last page of this report.

For more information on the status work on the Portland Harbor Superfund Site, see EPA's Portland Harbor web page (http://yosemite.epa.gov/r10/cleanup.nsf/sites/ptldharbor).

9.0 Information about Table 1: Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

The purpose of Table 1, entitled Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor, is to track and share information on the status of DEQ's efforts to evaluate and control sources of pollution to the Willamette River in Portland Harbor. The table provides information on each upland site that DEQ is working on in the Harbor, including the status of evaluations to determine whether source control is needed, the progress of source control measures, and the status of source control decisions and EPA review. Below is some helpful information for interpreting the table, including definitions for key terms and acronyms.

Site Information and Project Status

The first columns of Table 1 provide basic background information on each site, including:

- the name of the site,
- the site's reference number for DEQ's Environmental Cleanup Site Information (ESCI) database,
- the location of the site (river mile and address),
- the DEQ project manager that is leading source control work,
- the type of agreement DEQ is using to direct cleanup activities at the site (i.e., Intergovernmental Agreement, Portland Harbor Agreement, Unilateral Order, etc.), and
- the status of work occurring at the site (i.e., Preliminary Assessment, Remedial Investigation, completed Source Control Decision, Remedial Design/Remedial Action, etc.).

Sites are listed in Table 1 based on their position alongside the Willamette River, or the "River Mile" associated with their location. The River Mile indicates distance of the site from the Willamette River's confluence with the Columbia River. Sites associated with a lower river mile occur downstream of sites with a higher river mile.

Sites listed in Table 1 are those in Portland Harbor at which DEQ is actively overseeing upland investigation or source control actions, or for which source control decisions have been made. DEQ updates the site information in ECSI when a Strategy Recommendation is made, but a site is not added to Table 1 until active oversight of the project is provided by DEQ.

Source Control Evaluation

The Source Control Evaluation (SCE) columns in Table 1 provide information on the status of DEQ's work to evaluate the need for source control measures, including the status of SCE for each potential pathway, the schedule for completing SCE, the basis for determining whether source control measures are needed, and the status of EPA review.

Potential pathways

Six standard pathways represent the major potential pathways that contaminants could follow to reach the river from an upland site. These pathways include:

- overland transport/sheet flow – the uncontrolled flow of water and other material to the river from a site
- back erosion – erosion of material within the sloping bank areas of the site to the river
- groundwater – groundwater plumes or discharges to the river via seeps or through preferential pathways
- stormwater – stormwater discharges to the river that originate from a pipe or stormwater system, including unpermitted stormwater discharges and discharges under a DEQ general stormwater permit
- overwater activities – the storage or use of hazardous substances over the water (i.e., storage tanks on docks, permanent work activities conducted over water), that if released would be a potential current or future source of contamination to the river; pipelines and other conveyance systems are not considered in this category, releases from these types of systems are reported to the Oregon Emergency Response System (OERS) system for clean up
- other – may include permitted wastewater discharges, individually permitted stormwater discharges, air deposition or other pathways

Each of these standard pathways appears for each site in Table 1 to track SCE work on a pathway-specific basis.

Basis for determining the need for source control

DEQ evaluates each of the pathways listed above to determine the need for source control measures. DEQ makes this determination based on: (1) whether contaminants are present and whether the pathway is capable of carrying them to the river (if it is, the pathway is called "complete"); and if a complete pathway exists, (2) whether it is carrying contaminants to the river at concentrations that exceed the Screening Level Values (SLVs) provided in the Joint Source Control Strategy (JSCS)[5].

Three general examples are provided below.

- Example 1: Initial investigations of a site that is adjacent to the river indicate that bank soils have the potential to erode and carrying contaminants into the river. DEQ oversees a SCE to determine whether contaminants are in fact present in the bank soils and whether the eroded bank soils are carrying or could carry those contaminants into the river. The SCE concludes that contaminants are present in the bank soils and the soils are carrying contaminants into the river; the pathway is deemed "complete." The SCE then determines whether the bank soils are carrying or could carry contaminants to the river at concentrations that exceed the

[5] See p. 3-1 through 3-6 of the JSCS for more information about SLVs.

SLVs in the JSCS. If they are or could carry contaminants to the river at concentrations exceeding SLVs, DEQ determines that source control measures maybe needed and assigns a priority of high or medium to the pathway based on the degree of SLV exceedance (see "Priority levels for each pathway and site" below for more information on the priority levels). If it is a high priority, then the RP should move forward aggressively evaluating, designing, and implementing SCMs. If it is medium priority, then the RP should use the weight-of-evidence approach to determine if further SCE is needed or if SCMs are needed.

- Example 2: Initial investigations of a site adjacent to the river indicate that groundwater has the potential to migrate toward the river and carry contaminants. DEQ oversees a SCE to determine whether contaminants are present in the groundwater and whether the groundwater is carrying or could carry those contaminants into the river. The SCE concludes that groundwater is or could carry contaminants into the river, but only at concentrations significantly below the SLVs listed in the JSCS. DEQ determines that the pathway is "complete," but no source control actions are needed because SLVs are not exceeded.
- Example 3: Initial investigations of a site near (but not adjacent to) the river indicate that stormwater has the potential to migrate toward the river and carry contaminants. DEQ oversees a SCE to determine whether stormwater is in fact migrating to the river and whether it is or could carry contaminants to the river. The SCE concludes that stormwater is actually not reaching the river and could not reach the river because it is diverted to a stormwater treatment system. DEQ determines that the pathway is "not complete" and no source control actions are needed.

Definition of "Insignificant pathway; no actions recommended"

The term "insignificant pathway; no actions recommended," is used in Table 1 when (1) the pathway is complete, and (2) contaminant concentrations are near or below SLVs at a point of compliance (e.g., river bank monitoring wells) and are not anticipated to increase.

Use of "N/A" for the pathways

"N/A" is used in Table 1 to indicate that the particular pathway does not exist at the site. For example, for an upland site that is set back from the river (i.e., not adjacent to the river's edge) N/A would indicate that the overland transport/sheet flow, overwater activities, and bank erosion pathways do not exist at the site. For a site that is adjacent to the river, but where a concrete seawall lines the river bank, N/A would indicate that the pathway bank erosion does not exist at the site.

Priority levels for each pathway and site

Each pathway evaluated at each site is given a priority level for source control upon completion of the SCE, or when adequate information exists to determine the pathway's priority. Pathways are prioritized based on their ability to carry contaminants from upland areas to the river at concentrations that exceed SLVs. Each site is then given a priority level based on the highest priority of the pathways. For example, if a site has two low priority pathways and one high priority pathway, the site is determined to be a high priority for source control. Definitions for high, medium and low priority determinations follow.

- High – High priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is significantly impacting the river or poses a

significant and imminent threat to the river based on initial evaluation of key source control prioritization factors (listed on p. 4-3 of the JSCS). A primary consideration is that one or more media (soil, groundwater or stormwater) significantly exceed applicable SLVs at the point of discharge to the river (e.g., water at the end of a discharge pipe or soil or material at the riverbank) or the most reliable and cost-effective data point (e.g., groundwater measured at the shoreline), or where a bioaccumulative chemical is detected at concentrations significantly above the SLV. In addition, if an upland source is violating DEQ narrative water quality criteria for the Willamette River, the site may be considered a high priority. High priority sites are expected to move forward with aggressive source control measures without delay or be subject to enforcement action.

- Medium – Medium priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is impacting the river or poses a significant and/or imminent threat to the river based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 of the JSCS). A primary consideration is that one or more media exceed applicable SLVs, but not significantly, at the point of discharge to the river, or where a bioaccumulative chemical is detected at concentrations above the SLV. Although exceedance of SLVs does not necessarily indicate that a site poses a significant and/or imminent threat or needs to immediately implement source control measures, it does indicate that the site may pose a threat to human health or the environment and that additional evaluation may be needed to determine if source control measures are required to prevent, minimize or mitigate the migration of hazardous substances to the river. If the site exceeds one or more SLVs, the need for further characterization or for implementation of source control measures will be based on a site-specific weight-of-evidence determination. Medium priority sites are expected to perform a weight-of-evidence evaluation to determine if source control measures are required (see p. 4-5 of the JSCS for more information on the weight-of-evidence evaluation).
- Low – Low priority pathways and sites are those where upland data indicate, based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS), that the site likely poses a low threat to the river (e.g., concentrations are near or below SLVs) or where DEQ, in consultation with EPA, may issue an upland "No Further Action" (NFA) determination or lower the State's priority of the site for further upland investigation or remedial action under DEQ's cleanup authority. Source control measures will not be required at low priority sites unless determined necessary by the results of the Portland Harbor RIFS or ROD.
- p High – DEQ's preliminary determination is that this is likely a high priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.
- p Med – DEQ's preliminary determination is that this is likely a medium priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.
- p Low – DEQ's preliminary determination is that this is likely a low priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.

9.2 Contact information for DEQ Project Managers

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Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Note: Sites in this table are listed in order of their position alongside the Willamette River, or the "River Mile" associated with their location; the River Mile indicates distance from the Willamette River's confluence with the Columbia River.

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	NFA	02/19/09	Overland Transport/Sheet Flow	N/A	NA	N/A	N/A	none	Low	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	NFA	02/19/09	Bank Erosion	N/A	NA	N/A	N/A	none		N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	NFA	02/19/09	Groundwater	Completed	NA		Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 6/07 - EPA comments received 6/07									
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	NFA	02/19/09	Stormwater	Completed	NA		Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 6/07 - EPA comments received 6/07									
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	NFA	02/19/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	NFA	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	no pathway; berm prevents overland transport/sheet flow	None		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	02/23/09	Bank Erosion	Completed		SCE is part of June 06 Alternatives Evaluation	Pathway is complete	High		Deferred to Alternatives Evaluation	Design Basis document submitted July 2007; expanded alternative evaluation submitted June 2008, modified option presented to Agencies December 2008		Evaluating path forward considering EPA/Natural Resource Trustee comments					
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Groundwater (UST & AST AOCs)	Completed			Insignificant pathway; no actions recommended	Low	High	SCE submitted to EPA 10/2004; no comments received		Soil removal completed at time of spill, prior to SCE						SCE submitted to EPA 10/2004; no comments received	
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	01/14/08	Groundwater (other AOCs)	Completed			Pathway is complete	Medium		To be determined	Waiting for in-water RI to determine background manganese levels								
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	02/23/09	Stormwater	Completed		August 2006	Pathway is complete	High		SCE is part of Alternatives Evaluation	alternative evaluation completed 2006	End of pipe treatment	EPA agreed with proposed approach 9/14/06	Full-scale pilot operating 10/07; pilot study report submitted May 2008;		pilot testing in progress, loading evaluation to be proposed for 2010			
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Other - current NPDES permitted discharge	Not Started	To be determined	No current schedule	Waiting on SCE to be completed			Waiting on SCE to be completed									
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Groundwater	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Stormwater	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Other	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	03/06/09	Groundwater	Ongoing	DEQ is revisiting draft SCD	10/08 Draft SCE under review	Waiting on SCE to be completed.	p Low	P Low										
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	03/06/09	Stormwater	Ongoing	JSCS Prescribed Stormwater Evaluation	10/08 Draft SCE under review	Waiting on SCE to be completed	p Low											
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Overland Transport/Sheet Flow	Ongoing		Third Quarter 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed										
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Bank Erosion	Ongoing		Third Quarter 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed										
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Groundwater (Main Tank Farm Petroleum Plume)	Ongoing	Tank removal planned summer 09. Additional investigation anticipated	Third Quarter 2009	Pathway below concentrations of concern at the river; monitoring required	p Low		Waiting on SCE to be completed		Final SCM TBD; Interim passive NAPL recovery ongoing; In-situ chem ox pilot conducted Spring 2006							
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Groundwater (Bell Terminal Petroleum Plume)	Ongoing	Tank removal planned summer 09. Additional investigation anticipated	Third Quarter 2009	Pathway appears incomplete to the river; investigation dependent on Premier Edible Oils (ECSI # 2013)	p Low		Waiting on SCE to be completed										
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Groundwater (Penta Plume)	Completed			SCMs retard penta migration and prevent penta discharge to private stormwater outfall	Medium	Medium	SCE submitted to EPA.	alternatives evaluation completed	Source area pump & treat; insitu chemical oxidation (ISCO); gw to sw intercept pump & treat	SCM submitted to EPA May 2004; partners responded with questions	Ongoing pump & treat provides containment; 4 rounds of ISCO conducted through Spring '07 (no ISCO injection spring 08)	Over 34.53 million gallons of groundwater pumped and treated, ISCO has treated groundwater insitu (no estimate of volume)	Ongoing groundwater pump & treat; evaluation of ISCO effectiveness TBD - possible switch to bioremediation methods			Ongoing maintenance and monitoring of pump & treat system
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Stormwater	Ongoing	Source Control Evaluation report submitted 6/06; additional stormwater data required	4th Quarter 2008 to complete stormwater evaluation	Pathway appears insignificant (see above re:gw penta plume)	p Low		Waiting on SCE to be completed										
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Overwater Activities	N/A	N/A	N/A	No known current sources (no spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	03/30/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	03/30/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	03/30/09	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	03/30/09	Stormwater	Ongoing	Complete outfall basin characterizations, site-specifc investigations and source control, recontamination assessment	Ongoing (corresponding to Portland Harbor ROD)	Pathway is complete	p High	p High	Waiting on SCE to be completed.		Final SCM TBD. Ongoing SW inspections, investigations of illicit discharges, identification of potential contributors to City system. Site-specific catch basin cleanouts, line cleaning, and implementation of BMPs							
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	03/30/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	03/30/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.5 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway, no actions recommended	Low		EPA reviewed in 2000 and did not provide comments		No SCM needed							
Georgia Pacific Linnton	2370	3.5 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.5 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Groundwater	Open	10/2001 DEQ concluded not a current source. 5/2002 DEQ requestsedd additional groundwater work based on new PH strategies. 8/2002 GP declined. DEQ considers groundwater pathway not fully characterized, but not a high priority			Low	Low	EPA reviewed in 2000 and did not provide comments	NA	No SCM needed	NA	NA	NA	NA	NA	NA	N/A
Georgia Pacific Linnton	2370	3.5 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.5 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to CERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.5 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Groundwater	Completed			Insignificant pathway, no actions recommended	Low		SCE submitted to EPA (10/04), no comments		No SCM needed						SCM submitted to EPA (10/04) No comments	
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Stormwater	Completed			Currently insignificant pathway, stormwater pipe suspected past migration pathway	Low	Low	SCE submitted to EPA (10/04), no comments		Completed FS proposes removal of contaminated off-site soil potentially available for transport to river	SCM submitted to EPA (10/04). No comments					SCM submitted to EPA (10/04) No comments	
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Oil Fire Training Grounds	1189	3.6 W	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway, no actions recommended	Low		Complete									
Linnton Oil Fire Training Grounds	1189	3.6 W	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Bank Erosion	Completed			Insignificant pathway, no actions recommended	Low		Complete									

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Linnton Oil Fire Training Grounds	1189	3.6 W	NW Manna Way	Tom Gainer	IGA	NFA	03/02/06	Groundwater	Completed			Currently no complete pathway; groundwater monitoring to confirm plume stability	Low	Low	Complete									Annual groundwater monitoring (conditional NFA)
Linnton Oil Fire Training Grounds	1189	3.6 W	NW Manna Way	Tom Gainer	IGA	NFA	03/02/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		Complete									
Linnton Oil Fire Training Grounds	1189	3.6 W	NW Manna Way	Tom Gainer	IGA	N/A	03/02/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Oil Fire Training Grounds	1189	3.6 W	NW Manna Way	Tom Gainer	IGA	N/A	03/02/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Overland Transport/Sheet Flow	Ongoing	Reporting for site investigation work performed 3Q08, 4Q08, 1Q09.	to be determined	Waiting on SCE to be completed	to be determined	p High	Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Bank Erosion	Ongoing	Additional site investigation phase Jan. 08	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Stormwater	N/A	2008 Stormwater evaluation to Int'l slip, post facility demolition. Data presentation pending	to be determined	Facility dismantled and river outfalls removed	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Groundwater (GW LNAPL -SW Corner)	Ongoing	Source control measures needed to prevent product in shoreline wells from entering river.	to be determined	Free product on GW potentially discharging to river.	p High		Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Groundwater (Remaining GW Issues)	Ongoing	Addt. drilling near Time Oil/Bell Terminal performed Feb. 09.	to be determined	Dissolved contaminants in GW potentially discharging to river	to be determined		Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RoMar Realty of Oregon	2437	3.6 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.6 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		N/A									
RoMar Realty of Oregon	2437	3.6 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.6 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.6 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RoMar Realty of Oregon	2437	3.6 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA Reviewed and commented 10/20/02		No SCM needed							

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Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA Reviewed and commented 10/20/02		No SCM needed							
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Shawn Rapp	PH Letter Agr for XPA (12/99)	XPA	02/27/09	Overland Transport/Sheet Flow	Ongoing	Complete draft SCE	Summer 2009	Insignificant pathway; no actions recommended	p Low	P Low										
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Shawn Rapp	PH Letter Agr for XPA (12/99)	XPA	02/27/09	Bank Erosion	Ongoing	Complete draft SCE	Summer 2009	Insignificant pathway; no actions recommended	p Low											
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Shawn Rapp	PH Letter Agr for XPA (12/99)	XPA	02/27/09	Groundwater	Ongoing	Complete draft SCE	Summer 2009	Insignificant pathway; no actions recommended	p Low											
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Shawn Rapp	PH Letter Agr for XPA (12/99)	XPA	02/27/09	Stormwater	Ongoing	Stormwater evaluation	Summer 2009	Waiting on SCE to be completed	to be determined											
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Shawn Rapp	PH Letter Agr for XPA (12/99)	XPA	02/27/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Shawn Rapp	PH Letter Agr for XPA (12/99)	XPA	02/27/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Burgard Industrial Park	2355	3.8 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Overland Transport/Sheet Flow	Ongoing	Investigation scope of work under review	SCE under development due Dec. 2010	Waiting on SCE to be completed	High	pHigh										
Schnitzer Burgard Industrial Park	2355	3.8 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Bank Erosion	Ongoing	Additional sampling needed	SCE under development due Dec. 2010	Waiting on SCE to be completed	Medium											
Schnitzer Burgard Industrial Park	2355	3.8 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Groundwater	Ongoing	Ongoing monitoring	SCE under development due Dec. 2010	Waiting on SCE to be completed	Medium											
Schnitzer Burgard Industrial Park	2355	3.8 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Stormwater	Ongoing	Ongoing monitoring - and engineering improvements	SCE under development due Dec. 2010	Waiting on SCE to be completed	High											
Schnitzer Burgard Industrial Park	2355	3.8 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Overwater Activities	Not Started	TBD	SCE under development due Dec. 2010	Waiting on SCE to be completed	Medium											
Schnitzer Burgard Industrial Park	2355	3.8 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Other	N/A	N/A	SCE under development due Dec. 2010	Waiting on SCE to be completed	Low											
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	SCE report in revision	Fall 2009	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	03/06/09	Groundwater	Ongoing	SCE report in revision	Fall 2009	Not a complete pathway	None		Waiting on SCE to be completed									
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	03/06/09	Stormwater	Ongoing	SCE report in revision	Fall 2009	SW suspected migration pathway	p Med		Waiting on SCE to be completed									
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Schnitzer Steel	2355	4.0 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Overland Transport/Sheet Flow	Ongoing	Investigation scope of work under review	SCE under development due Dec. 2010	Waiting on SCE to be completed	High	p High	Waiting on SCE to be completed		Likely dock engineering improvements to capture sheet flow stormwater							
Schnitzer Steel	2355	4.0 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Bank Erosion	Ongoing	Additional sampling needed	SCE under development due Dec. 2010	Waiting on SCE to be completed	Medium		Waiting on SCE to be completed									
Schnitzer Steel	2355	4.0 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Groundwater	Ongoing	ongoing monitoring	SCE under development due Dec. 2010	Waiting on SCE to be completed	Medium		Waiting on SCE to be completed									
Schnitzer Steel	2355	4.0 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Stormwater	Ongoing	Ongoing monitoring - and engineering improvements	SCE under development due Dec. 2010	Waiting on SCE to be completed	High		Waiting on SCE to be completed		Signicant stormwater system upigrade planned summer 2009							
Schnitzer Steel	2355	4.0 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Overwater Activities	Not Started	To be determined	SCE under development due Dec. 2010	Waiting on SCE to be completed	Medium		Waiting on SCE to be completed									
Schnitzer Steel	2355	4.0 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	03/06/09	Other	N/A	N/A	SCE under development due Dec. 2010	N/A	Low		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/CSM (3/00)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	03/06/09	Bank Erosion	Ongoing	To be determined	Second Quarter 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	03/06/09	Groundwater	Ongoing	Complete nature & extent in RI; RP will conduct IRAM effectiveness evaluation	Second Quarter 2009	LNAPL seeps on shoreline and dissolve petroleum likely discharging to river	p High		Waiting on SCE to be complete		Interim LNAPL removal and groundwater pump and treat system in operation							
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	03/06/09	Stormwater	Ongoing	Catch basin sampling & stormwater sampling as part of SCE	Second Quarter 2009	Waiting on SCE to be completed	to be determined	p High	Waiting on SCE to be complete									
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	03/06/09	Other	Ongoing	GW treatment system & oil/water separator on NPDES - Evaluate existing data set	Second Quarter 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be complete									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	02/19/09	Bank Erosion	Completed	SCM necessary; coordinate with T4 Early Action	Tied to T4 Early Action schedule	Pathway is complete	High		Tied to T4 Early Action schedule	Part of T-4 Early Action Process	Cap	Selected SCMs	Wheeler Bay SCMs 10-08	report due 3-09	Wheeler Bay bank regraded and capped fall 2008	10-08	EPA reviewed and commented.	periodic inspection and maintenance
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	02/19/09	Groundwater	Pending EPA Review	RI data review	Summer 2009	Preliminary determination that pathway is insignificant	p Low		Waiting on SCE to be completed									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	02/19/09	Stormwater	Ongoing	SCE submitted March 2009 Under review	Summer 2009	Waiting on SCE to be completed	to be determined	p Med	Waiting on SCE to be completed									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	02/19/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Overland Transport/Sheet Flow	Completed			SCM addressed this potentially complete pathway	Low		EPA reviewed and commented		Independent removal of two small upland source areas and offsite disposal in 2002 and 2003	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		No SCM needed	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented		No SCM needed	Received review 8/29/03					Received review 8/29/03	

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Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		Ongoing Stormwater BMPs and monitoring	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		No SCM needed	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A		N/A						N/A	
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	02/19/09	Overland Transport/Sheet Flow	N/A	N/A - see Bank Erosion and Stormwater pathways	N/A	N/A	none	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	02/19/09	Bank Erosion	Completed			Pencil pitch observed and PAHs detected in river bank soils above PECs	p Med		Spring 2009		Excavation and capping	Spring 2009			Excavation and capping (summer/fall 2009)			
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	02/19/09	Groundwater	Completed			Complete pathway - remedy recommended and implemented	Medium		EPA reviewed and commented, 2/2003		Bank excavation and backfill remedial action, NAPL recovery, monitoring	EPA reviewed and commented, 2/2003	Bank excavation and backfill remedial action (BEBRA) 11/04	2,700 cubic yards of contaminated soil removed; 30.2 gallons NAPL recovered to date	NAPL recovery and monitoring ongoing			
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	02/19/09	Stormwater	Ongoing	Stormwater sampling ongoing	Spring 2009	Complete pathway; BMPs in place	p Med		Waiting on SCE to be completed									
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	02/19/09	Overwater Activities	N/A	N/A - Historic releases to be addressed by the in-water T4 Early Action	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA April 2004, no comments received		No SCM needed						SCM submitted to EPA April 2004, no comments received	
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA April 2004, no comments received		No SCM needed							
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	02/19/09	Bank Erosion	N/A	No Bank -concrete sea wall	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	02/19/09	Groundwater	Completed			Free product & dissolved phase potentially reaching river	p High		EPA reviewed and commented 2007	alternatives evaluation completed 3//2007 for on site GW	New sheetpile barrier wall with hydraulic control and GW pump & treat system	EPA reviewed 3/2007	Hydraulic Control system installed 1/2005, new sheetpile seawall 11/2007	700 linear feet of plume controlled at riverbank		11/08		effectiveness monitoring 2009
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	02/19/09	Stormwater	Ongoing	Sampling stormwater system	Summer 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	02/19/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	alternatives evlauation for near-shore sediment completed 3/07	Revetment and near-shore sediment removal and off-site disposal	EPA reviewed 3/07	Sediment removal complete 11/08	16,300 CY sediment	Final grading and planting summer 2009	11/08	TBD	Recontamination evaluation
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 6/04		No SCM needed							

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river							Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)									
Site information					Project status						Basis for determination that source control is needed													
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	02/19/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	02/19/09	Groundwater	Completed			Groundwater is a complete pathway	High	High	DEQ issued a ROD in 1997 requiring groundwater treatment	DEQ issued a ROD in 1997 requiring groundwater treatment	Operating air sparge & SVE system. Expansion of air sparge system (1/2005) - Additional GW SCMS are being considered	Possiblility only if remedy is shown not to be protective and altenative remedial action is proposed	Operating air sparge & SVE system. Expansion of air sparge system (1/2005)		Additional SCMs in hydraulic gap at downstream end of site (Summer 2009)			Sytem inspection , opertion, and effectiveness monitoring onoing
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	02/19/09	Stormwater	Not Started	DEQ negotiating with current facility owner NuStar to enter Portland Harbor Cleanup Agreement and conduct SCE	Fall 2009	Waiting on SCE to be completed	to be determined											
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	02/19/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	02/19/09	Other	Not Started	N/A	N/A	N/A	to be determined											
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	02/19/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	02/19/09	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	Waiting on SCE completion		Conducted soil removal following petroleum spill in mid 1990s							
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	02/19/09	Stormwater	Ongoing	Dependent upon groundwater conditions	Fall 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	02/19/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shore Terminals (aka NuStar and Valero was ECSI #1989)	5130	5.4W	9400 NW St Helens Rd	Jim Orr	VCP Agreement for Stormwater Assessment & Source Control		03/06/09	Overland Transport/Sheet Flow	Not Started	Stormwater Assessment	To be determined	Pathway derermination	to be determined											
Shore Terminals (aka NuStar and Valero was ECSI #1989)	5130	5.4W	9400 NW St Helens Rd	Jim Orr	VCP Agreement for Stormwater Assessment & Source Control		03/06/09	Bank Erosion	Not Started			Pathway derermination	p Med											

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Shore Terminals (aka NuStar and Valero was ECSI #1989)	5130	5.4W	9400 NW St Helens Rd	Jim Orr	VCP Agreement for Stormwater Assessment & Source Control		03/06/09	Groundwater	Not Started			Pathway derermination	p Med	p Med										
Shore Terminals (aka NuStar and Valero was ECSI #1989)	5130	5.4W	9400 NW St Helens Rd	Jim Orr	VCP Agreement for Stormwater Assessment & Source Control		03/06/09	Stormwater	Not Started	Stormwater Assessment	To Be Determined.	Pathway derermination	to be determined											
Shore Terminals (aka NuStar and Valero was ECSI #1989)	5130	5.4W	9400 NW St Helens Rd	Jim Orr	VCP Agreement for Stormwater Assessment & Source Control		03/06/09	Overwater Activities	Not Started		SOW under development, due (type date).	Pathway derermination	to be determined											
Shore Terminals (aka NuStar and Valero was	5130	5.4W	9400 NW St Helens Rd	Jim Orr	VCP Agreement for Stormwater Assessment & Source Control		03/06/09	Other	Not Started		SOW under development, due (type date).	Pathway derermination	to be determined											
Brix Maritime (aka Foss)	2364	5.5 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	N/A, releases from USTs, site is entirely paved and/or developed	N/A	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.5 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	03/06/09	Bank Erosion	N/A	N/A, releases from USTs, heavily armored with rip-rap, no significant habitat	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.5 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	03/06/09	Groundwater	Ongoing	Continue monitoring; compile available site data for RI and source control evaluation	4th Quarter 2009	Pathway is complete	pMed		Waiting on SCE to be completed.									
Brix Maritime (aka Foss)	2364	5.5 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	03/06/09	Stormwater	Stormwater Pathway Work Plan approved 12/07	Catch basin sediment sampling/screening for site COI plus PCBs and phthalates, and follow-up storm water sampling per	4th Quarter 2009	to be determined	to be determined		Waiting on SCE to be completed.									
Brix Maritime (aka Foss)	2364	5.5 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.5 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	NFA	03/06/09	Overland Transport/Sheet Flow	Completed			overland soil transport suspected migration pathway	Low		EPA reviewed and commented 2004	attematives evaluation completed in 2004	removal of 278 cubic yards of sandblast grit and soil; DEQ issues SCD in 5/2004	EPA reviewed and approved 2004	2007	278 CY soil	Port of Portland condemned property. Port conducted soil removal as prescribed in RCD 5/07	5/07	EPA commented 5/08	None
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	NFA	03/06/09	Bank Erosion	Not Started			Deferred investigation of beach to Mar Com South Parcel	p Med				Deferred investigation of beach to Mar Com South Parcel							
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	NFA	03/06/09	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	p Med	EPA reviewed and commented 2004		N/A							
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	NFA	03/06/09	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 2004		N/A							
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	NFA	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	NFA	03/06/09	Other	N/A		N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Overland Transport/Sheet Flow	Completed			contaminated over screening criteria in soil potentially susceptible to runoff	Low		SCE submitted to EPA 9/30/04. No comments received	alternatives evaluation completed 2004	Dig and haul soil contamination; capping with clean fill and/or building	SCM submitted to EPA 9/2004, no comments received	Soil removed 08/05; selected site areas capped with building and/or clean fill	1,150 cubic yards of soil removed (estimated); report pending		11/05	SCA submitted to EPA July 18, 2007.	Institutional control for cap and building will be required
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	No SCM needed						SCA submitted to EPA July 18, 2007.	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	No SCM needed						SCA submitted to EPA July 18, 2007.	N/A

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Stormwater	completed			insignificant pathway, no actions recommended	Low		N/A	N/A	N/A	N/A	N/A	N/A	Storm drain system was installed in May 2006, 3 storm water sampling events complete, 1 more pending		SCA submitted to EPA July 18, 2007	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	03/06/09	Overland Transport/Sheet Flow	Ongoing	Overland flows down concrete shipway and across large unpaved site areas need to be investigated	Draft SCE received	draft SCE completed, under review	p High	p High	To be determined									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	03/06/09	Bank Erosion	Ongoing	Investigation must include North Parcel bank and beach	TBD - SCE received does not include Marcom N bank	p Med	p Med		To be determined									
Mar Com (S Parcel)	2350	5.8 E	8790 N Burgard	Mike Romero	PH Agr	RI	03/06/09	Groundwater	Ongoing	Need to determine N&E in RI	Draft SCE received	draft SCE completed, under review	p Med		To be determined									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	03/06/09	Stormwater	Ongoing	Catch basin and Stormwater sampling	Draft SCE received	draft SCE completed, under review	to be determined		To be determined									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	03/06/09	Overwater Activities	N/A	No current overwater activities, only historic	N/A	N/A	to be determined		N/A		Floating dry dock sold in 2004, and removed from site							
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BES Water Lab	2452	6.0E	6543 N Burlington	Mark Pugh	IGA	PA	03/10/09	Overland Transport/Sheet Flow	Ongoing	TBD; scope of additional work being negotiated	SOW under development, .	Waiting on SCE to be completed	p Low	p Low	Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington	Mark Pugh	IGA	PA	03/10/09	Bank Erosion	Ongoing	TBD; scope of additional work being negotiated	SOW under development, .	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington	Mark Pugh	IGA	PA	03/10/09	Groundwater	Ongoing	TBD; scope of additional work being negotiated	SOW under development, .	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington	Mark Pugh	IGA	PA	03/10/09	Stormwater	Ongoing	TBD; scope of additional work being negotiated	SOW under development, .	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)				Upgraded stormwater management system					
BES Water Lab	2452	6.0E	6543 N Burlington	Mark Pugh	IGA	PA	03/10/09	Overwater Activities	Ongoing	N/A	No current schedule.	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington	Mark Pugh	IGA	PA	03/10/09	Other	Ongoing	N/A	No current schedule.	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	03/30/09	Overland Transport/Sheet Flow	Draft RI 2/09		No current schedule.	Waiting on SCE to be completed	to be determined	to be determined	NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	03/30/09	Bank Erosion	Draft RI 2/09		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	03/30/09	Groundwater	Draft RI 2/09		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	03/30/09	Stormwater	Draft RI 2/09		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	03/30/09	Overwater Activities	Draft RI 2/09		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	03/30/09	Other	Draft RI 2/09		No current schedule.	Waiting on SCE to be completed	to be determined		N/A									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Shawn Rapp	PH Letter Agr for XPA (11/99)	XPA	02/27/09	Overland Transport/Sheet Flow	Ongoing	See Stormwater Pathway	Fall 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Shawn Rapp	PH Letter Agr for XPA (11/99)	XPA	02/27/09	Bank Erosion	Ongoing	To be determined	Fall 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE completion		RP removed black sand from beach and bank in 10/01. Residual contamination exists on beach. Bank was replaced with [illegible]							
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Shawn Rapp	PH Letter Agr for XPA (11/99)	XPA	02/27/09	Groundwater	Completed		Fall 2009	Insignificant pathway; no actions recommended	p Low	p Low	Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Shawn Rapp	PH Letter Agr for XPA (11/99)	XPA	02/27/09	Stormwater	Ongoing	Storm water sampling per JSCS	Fall 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Shawn Rapp	PH Letter Agr for XPA (11/99)	XPA	02/27/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Shawn Rapp	PH Letter Agr for XPA (11/99)	XPA	02/27/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	03/23/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	03/23/09	Bank Erosion	Completed	N/A, NW Natural moving forward with source control	N/A, NW Natural submitted SCM evaluation	Pathway is complete	High		N/A	SCM Evaluation (FFS) received 11/07, DEQ review complete (3/08)	Depending on location, riverbank SCMs to include bank regrading, repair, removal, and replacement combined with shallow groundwater controls.	EPA comments received 2/08			NW Natural, EPA, and DEQ agreed riverbank work will take place concurrently with the construction phase of the Gasco in-water sediment action, both to be overseen by EPA. The Gasco in-water sediment action is envisioned as being one of the first to be implemented after the Portland Harbor ROD is issued.			
NW Natural "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	03/23/09	Groundwater	Completed	N/A, NW Natural submitted SCM Evaluation	N/A, NW Natural submitted SCM Evaluation	Pathway is complete	High	High	N/A	SCM Evaluation (FFS) submitted 11/07, DEQ review complete 3/08	Verttical barrier in most contaminated shoreline area (Segment 1), hydraulic containment along site shoreline (segments 1 and 2), and DNAPL removal beneath former effluent ponds.	EPA comments received 2/08	Preliminary design document received (6/08), DEQ review complete (8/08)		Construction projected to begin 4th quarter 2009 pending approval of SCMs design & acquisition of permits.			
NW Natural "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	03/23/09	Stormwater	Stormwater Pathway Work Plan approved 1/08	Catch basin sediment sampling/screening for site COI plus PCBs and phthalates completed and in review by DEQ. Follow-up storm water sampling per JSCS to be conducted.	Winter 2009-Spring 2010	Pathway is complete	to be determined		Waiting on SCE to be completed.									
NW Natural "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	03/23/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	03/23/09	Other - Koppers NPDES Permit	Ongoing	Investigate COI contributions to Doane Creek & City's OF-22C per Stormwater Pathway Work Plan	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Koppers Inc	2348	6.5 W	7540 NW St. Helens Rd.	Dana Bayuk			04/07/09	Overland Transport/Sheet Flow																
Koppers Inc	2348	6.5 W	7540 NW St. Helens Rd.	Dana Bayuk			04/07/09	Bank Erosion																
Koppers Inc	2348	6.5 W	7540 NW St. Helens Rd.	Dana Bayuk			04/07/09	Groundwater																

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status																			
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Basis for determination that source control is needed			Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
												Pathway determination	Pathway priority level	Site priority level										
Koppers Inc	2348	6.5 W	7540 NW St. Helens Rd.	Dana Bayuk	Part of NW Natural "Gasco" Site; see ESCI #84		04/07/09	Stormwater						to be determined										
Koppers Inc	2348	6.5 W	7540 NW St. Helens Rd.	Dana Bayuk			04/07/09	Overwater Activities																
Koppers Inc	2348	6.5 W	7540 NW St. Helens Rd.	Dana Bayuk		Ongoing	04/07/09	Other - Koppers NPDES Permit	Ongoing	Investigate COI contributions to Doane Creek & City's OF-22C per Stormwater Pathway Work Plan approved 1/08	to be determined	Pathway is complete	to be determined		Waiting on SCE to be completed									
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	03/23/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	03/23/09	Bank Erosion	Ongoing	Characterize MGP waste/contamination along shoreline per NW Natural's "Siltronic MGP Site" RI work plan approved 10/07 (field work and data collection ongoing).	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed										
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	03/23/09	Groundwater	Completed	NW Natural moving forward with SC along most contaminated portion of Siltronic shoreline (Segment 1). MGP waste/contamination being investigated along shoreline upstream of Segment 1 (i.e., Segment 3) per MGP RI work plan. Review draft Segment 3 SCE (2/09).	4th Quarter 2009 (Segment 3 projected)	Pathway is complete	High	High		SCM Evaluation (FFS) received 11/07, including Siltronic portion of Segment 1; DEQ review complete (3/08)	Hydraulic containment of Siltronic portion of Segment 1	EPA comments received 2/08	Preliminary design document received (6/08), DEQ review complete (8/08)		Construction projected to begin Winter 2009 pending approval of SCMs design & acquisition of permits			
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	03/23/09	Stormwater	Ongoing	Evaluate MGP waste/contamination in shallow soils per MGP RI work plan and combine with Siltronics stormwater system data.	4th Quarter 2009	Pathway is complete	to be determined		Waiting on SCE to be completed										
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	03/23/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	03/23/09	Other - Doane Creek	Ongoing	Investigate COI contributions to Doane Creek & City's OF-22C per Siltronic MGP Site RI work plan	TBD pending results of bank soil, stream sediment, and surface water sampling proposed in MGP RI	Pathway is complete	to be determined		Waiting on SCE to be completed										
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	03/23/09	Overland Transport/Sheet Flow	N/A	N/A, subsurface releases from UST system	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	03/23/09	Bank Erosion	N/A	N/A, subsurface releases from UST system	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	03/23/09	Groundwater	Completed	N/A, Silltronic moving forward with source control, SCM Evaluation submitted 10/07	N/A, Siltronic submitted SCM Evaluation	Pathway is complete	N/A, Siltronic submitted SCM Evaluation			SCM Evaluation (FFS) complete (12/07), DEQ review complete (2/08)	Enhanced in-situ bioremediation (EIB) in source area of TCE release, hydraulic containment in coordination with NW Natural along shoreline	EPA comments communicated to Siltronic 5/08	Final EIB work plan received (10/08), approved by DEQ (12/08); EIB performance monitoring well network established (2/09)		Complete EIB injections (Spring 2009)			

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	03/23/09	Stormwater	Ongoing	Complete storm water sampling per JSCS	4th Quarter 2009	Pathway is complete	to be determined	High	Waiting on SCE to be completed									
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	03/23/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	03/23/09	Other - Sediment contamination (Area 2) offshore of northern facility outfall (Outfall 001)	N/A	DEQ review of RI & Outfall Evaluation reports	4th Quarter 2009	to be determined	to be determined		Waiting on SCE to be completed						Area 2 sediment contamination to be included in Gasco in-water sediment action overseen by EPA. Gasco action envisioned to be one of first implemented after the Portland Harbor ROD is issued.			
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	03/06/09	Overland Transport/Sheet Flow	Ongoing	Uplands Soil removal	May 2009	Waiting for SCE to be completed	p Low		Waiting on SCE to be completed				Removal of contaminated soil completed June 2008	625 cubic yards				
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	03/06/09	Bank Erosion	Ongoing	Performed addt. bank sampling 2008	May 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	03/06/09	Groundwater	Ongoing	Groundwater monitoring Completed	May 2009	Waiting on SCE to be completed	to be determined	Low	Waiting on SCE to be completed									
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	03/06/09	Stormwater	N/A		NA	No site-related stormwater outfalls	none		NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	No current source; likely historic sources	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	03/06/09	Other - in river (beach area removal)	Completed			Suspected migration pathway	Low		EPA reviewed and commented	alternatives evaluation completed 2004	Source removal completed in river 10/2004	deferred to in-water RI						
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Groundwater (plume discharge to river)	Ongoing	SCE Report and Alternatives Analysis	SCE Report in revision - 7/2009	Pathway is complete	p High		Waiting on SCE to be completed	Interim measure pilot study planned 2009;								
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Groundwater (plume discharge to City Outfall 22B)	Ongoing	Phased dry weather flow investigation in progress	Part of SCE 7/2009	Pathway is complete	High	High	Waiting on SCE to be completed	Interim measures identified	Interim SCMs to stormwater line to prevent gw infiltration, effectiveness monitoring ongoing							
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Stormwater	Ongoing	City Outfall 22B & 22C storm drain evaluations	Pending GW SCM for 22B	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed									
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Other - historical drainage ditch	Ongoing	Complete remedial investigation	Part of SCE 7/2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
Rhone Poulenc	155	7.0 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	02/23/09	Other - current NPDES permitted discharge	Ongoing	Data collection for PH COI	Part of SCE 7/2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Overland Transport/Sheet Flow	Completed			Pathway is complete	High		Complete								EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Bank Erosion	Completed			Pathway is complete	High		Complete								EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Groundwater	Completed			Pathway is complete	High		Complete								EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Stormwater	Completed			Pathway is complete	High		Complete								EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Overwater Activities	Completed			Pathway is complete	High		Complete								EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Other	N/A			N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Groundwater (Chlorobenzene/DDT Plume)	Completed		Completed April 07	Pathway is complete	High	High	EPA May 07 Completed	Draft focused feasibility study (ffs) for proposed hydraulic containment wall/system submitted May 08, Response to EPA/DEQ comments received Sept. 2008.	1,800 foot top of bank slurry wall, groundwater pump and treat system recommended.	Submitted for EPA review February 24, 2009	Interim SCMs include AS/SVE system, initiated in-situ chem-ox treatment					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Groundwater (Hexavalent Chromium Plume)	Completed		Completed April 07	Pathway is complete	High		EPA May 07 Completed	Draft focused feasibility study (ffs) for proposed hydraulic containment wall/system submitted May 08, Response to EPA/DEQ comments received Sept. 2008.	1,800 foot top of bank slurry wall, groundwater pump and treat system recommended.	Submitted for EPA review February 24, 2009	Interim SCMs include in-situ calcium polysulfide treatment					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	03/09/09	Groundwater (Perchlorate Plume)	Completed		Completed April 07	Pathway is complete	High		EPA May 07 Completed	Draft focused feasibility study (ffs) for proposed hydraulic containment wall/system submitted May 08, Response to EPA/DEQ comments received Sept. 2008.	1,800 foot top of bank slurry wall, groundwater pump and treat system recommended.	Submitted for EPA review February 24, 2009	Bench scale treatability study completed April 2008					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	03/09/09	Overland Transport/Sheet Flow	Ongoing	Part of Stormwater FFS	DEQ currently reviewing	Waiting on SCE to be completed	to be determined		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	03/09/09	Bank Erosion	Completed			River Bank soil contaminant levels exceed action levels	p High		Anticipate integrating with EPA in-water early action process	DEQ review of draft SCE to be completed March 2009	Timing of SCM to be coordinated with EPA early action.		None				
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	03/09/09	Stormwater	Completed			Contaminants in stormwater exceed screening values (AWQC)	p High		EPA review deferred to review of selected SCM	Draft stormwater focused feasibility study submitted July 2008 - Negotiations ongoing	Final SCMs to be determined	EPA comments received July 2008	Interim SCMs include BMPs, surface soil removals and surface soil caps				
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	03/09/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	03/09/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Air Liquide	395	7.2 W	6529 NW Front Ave.	Karen Tarnow	Letter Agreement 1/09	XPA	03/30/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Air Liquide	395	7.2 W	6529 NW Front Ave.	Karen Tarnow	Letter Agreement 1/09	XPA	03/30/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Air Liquide	395	7.2 W	6529 NW Front Ave.	Karen Tarnow	Letter Agreement 1/09	XPA	03/30/09	Groundwater	Ongoing	TBD	TBD	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE completion		Conducted soil removal following petroleum spill in mid 1990s						
Air Liquide	395	7.2 W	6529 NW Front Ave.	Karen Tarnow	Letter Agreement 1/09	XPA	03/30/09	Stormwater	Ongoing	Stormwater Assessment	Winter 2010	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Air Liquide	395	7.2 W	6529 NW Front Ave.	Karen Tarnow	Letter Agreement 1/09	XPA	03/30/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Air Liquide	3342	7.2 W	6529 NW Front Ave.	Karen Tarnow	Letter Agreement 1/09	XPA	03/30/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	03/06/09	Overland Transport/Sheet Flow	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	03/06/09	Bank Erosion	Ongoing	XPA complete; RI and SCE to be initiated in RI	SOW under development	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	03/06/09	Groundwater	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	03/06/09	Stormwater	Ongoing	XPA complete; RI and SCE to be initiated	SOW under DEQ review	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Overland Transport/Sheet Flow	Ongoing	Finish Site Characterization	1st qtr. 2007	Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Bank Erosion	Ongoing	Finish Site Characterization	1st qtr. 2007	Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Groundwater	Ongoing	Finish Site Characterization	1st qtr. 2007	Pathway is complete	to be determined	Medium	EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Stormwater	Ongoing	Finish Site Characterization	1st qtr. 2007	Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Overwater Activities	N/A	Finish Site Characterization	1st qtr. 2007	No current overwater activities	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Other - Petroleum pipeline enters at south end of site from beneath the river	Ongoing	Finish Site Characterization	1st qtr. 2007	Insignificant pathway; no actions recommended	Low		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA issued groundwater NFA based upon risk assessment		No SCM needed						EPA lead	
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Groundwater/ City Storm Sewer	Completed			Pathway has been eliminated	none		EPA lead									
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Stormwater	Completed			Historically pathway existed. Current discharge insignificant pathway; no actions recommended	Low		EPA lead		1) Contaminated soil removal and containment (landfill). 2) Sediment removal						EPA lead	
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Other - Historic and Current NPDES permit	Completed			Historically pathway existed. Current discharge insignificant pathway; no actions recommended	Low		EPA lead		Removed waste pond (East Doane Lake). O&M ongoing						EPA lead	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		Submitted to EPA fall 2004; no comments		No SCM needed						N/A	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	03/06/09	Bank Erosion	Completed	Erodable Soils sampling conducted		Insignificant pathway; no actions recommended	Low		Submitted to EPA fall 2004; no comments		No SCM needed						N/A	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	03/06/09	Groundwater	Ongoing	Deep GW monitor wells installed 12/07		GW suspected migration pathway	High		1st SCE submitted to EPA fall 2004; no comments. Waiting for 2nd SCE for deep GW to be completed	no alternatives evaluation needed	Product recovery & hydraulic containment for shallow GW (sheet pile wall)	Proposed SCM submitted to EPA fall 2004; no comments	hydraulic containment and treatment		containment system installed 2006,			Effectiveness monitoring and operation and maintenance on going

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Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	03/06/09	Stormwater	Ongoing	Stormwater characterization started fall 07'	4th quarter 2009	Waiting on SCE to be completed	to be determined	High	Waiting on SCE to be completed. # site conducting individual SCE for this pathway		Leaking stormwater covernanyce system being repaired to stop GW infiltration at Conoco and KM (Saltzman creek)				Repair stormwater system begun 11/07			
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	03/06/09	Overwater Activities	N/A	N/A	4th quarter 2009	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.8 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	Source Control Evaluation report submitted 03/2009 in review	3nd Qtr 2009	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.8 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	03/06/09	Bank Erosion	Ongoing	Source Control Evaluation report submitted 03/2009 in review	3nd Qtr 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
McCall Oil	134	7.8 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	03/06/09	Groundwater	Ongoing	Source Control Evaluation report submitted 03/2009 in review	3nd Qtr 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
McCall Oil	134	7.8 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	03/06/09	Stormwater	Ongoing	Source Control Evaluation report submitted 03/2009 in review	3nd Qtr 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
McCall Oil	134	7.8 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	NA	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.8 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	03/30/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	03/30/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03), new agreement being negotiated	XPA	03/30/09	Groundwater	Ongoing	Preparation of revised SCE report	Second Quarter 2009	Insignificant pathway; no actions recommended	Low		Waiting on revised SCE to be completed.	N/A			N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03), new agreement being negotiated	XPA	03/30/09	Stormwater	Ongoing	Preparation of revised SCE report	Second Quarter 2009	observations of sediment in City of Portland lines	p Low		Waiting on revised SCE to be completed.	Spring/summer 2008	In-line sediment removal	Waiting on SCE to be completed.	BMPs such as catch basin inserts, inspection and catch basin cleanout on periodic basis; storm line segments cleaned.	approximately 1 ton of catch basin and in-line solids removed to date.	Additional cleanout of line segments; pending DEQ approval of SCE Report	N/A	TBD	BMPs as documented in SWPCP
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	03/30/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	03/30/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glacier Northwest Inc.	2378	8.1 W	5034 NW Front Ave	Mike Romero	Part of Front Ave LP site, see ESCI #1239			Overland Transport/Sheet Flow																
Glacier Northwest Inc.	2378	8.1 W	5034 NW Front Ave	Mike Romero				Bank Erosion																
Glacier Northwest Inc.	2378	8.1 W	5034 NW Front Ave	Mike Romero				Groundwater																
Glacier Northwest Inc.	2378	8.1 W	5034 NW Front Ave	Mike Romero				Stormwater																
Glacier Northwest Inc.	2378	8.1 W	5034 NW Front Ave	Mike Romero				Overwater Activities																
Glacier Northwest Inc.	2378	8.1 W	5034 NW Front Ave	Mike Romero				Other																
Front Ave LP	1239	8.2 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		NA									
Front Ave LP	1239	8.2 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	03/06/09	Bank Erosion	Ongoing	Conducting XPA and SCE	2nd Qtr 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									

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Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Front Ave LP	1239	8.2 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	03/06/09	Groundwater	Ongoing	Conducting XPA and SCE	2nd Qtr 2009	Waiting on SCE to be completed	p Low	p Low	Waiting on SCE to be completed.									
Front Ave LP	1239	8.2 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	03/06/09	Stormwater	Ongoing	Conducting XPA, additional sampling needed for SCE completion	2nd Qtr 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Front Ave LP	1239	8.2 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A	N/A	N/A
Front Ave LP	1239	8.2 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
USCG	1338	8.2 E	6767 N Basin Ave.	Shawn Rapp	VCP Letter Agr (2/04)	RI	02/27/09	Overland Transport/Sheet Flow	Ongoing		4th Quarter 2009	Insignificant pathway; no actions recommended	p Low	p Med	Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Shawn Rapp	VCP Letter Agr (2/04)	RI	02/28/09	Bank Erosion	Ongoing		4th Quarter 2009	Insignificant pathway; no actions recommended	p Low		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Shawn Rapp	VCP Letter Agr (2/04)	RI	03/01/09	Groundwater	Ongoing		4th Quarter 2009	Insignificant pathway; no actions recommended	p Low		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Shawn Rapp	VCP Letter Agr (2/04)	RI	03/02/09	Stormwater	Ongoing	Sampling stormwater system	4th Quarter 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Shawn Rapp	VCP Letter Agr (2/04)	RI	03/03/09	Overwater Activities	Ongoing		4th Quarter 2009	No known current sources (spills will be reported to OERS)	Low		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Shawn Rapp	VCP Letter Agr (2/04)	RI	03/04/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Bank Erosion	N/A			N/A	none		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Stormwater	Completed			Insignificant pathway; possible historic source	Low		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	04/07/09	Overland Transport/Sheet Flow	N/A	screening	No current schedule.	No known current sources (spills will be reported to OERS)	none		N/A									
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	04/07/09	Bank Erosion	N/A	N/A	No current schedule.	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	04/07/09	Groundwater	N/A	N/A	No current schedule.	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	04/07/09	Stormwater	Ongoing	Complete stormwater system characterization	Second Quarter 2009	to be determined	p Low	p Low	Waiting on SCE to be completed.				BMPs such as catch basin inserts, inspection and catch basin cleanout on					
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	04/07/09	Overwater Activities	N/A	N/A	06/2009	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	04/07/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.3 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.3 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Freightliner Truck Plant	2366	8.3 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Groundwater	Ongoing	determine nature and extent of VOC plume	4th Qtr 2009	Waiting on SCE/RI report to be completed	p Low	p Low	Waiting on SCE/RI to be completed.									
Freightliner Truck Plant	2366	8.3 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Stormwater	Ongoing	SW evaluation started 07'	2nd Qtr 09	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.		RP voluntarily applying SW engineering							
Freightliner Truck Plant	2366	8.3 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.3 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	03/06/09	Bank Erosion	Completed	Prepare SCE report	To be determined	Insignificant pathway; no actions recommended	p Low		Waiting on SCE completion									
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	03/06/09	Groundwater	Ongoing	Prepare SCE report	To be determined	Waiting on SCE to be completed	p Low		Waiting on SCE completion		UIC closures in 2003							
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	03/06/09	Stormwater	Ongoing	Initiate stormwater evaluation	To be determined	Waiting on SCE to be completed	to be determined	p Low	Waiting on SCE completion		Interim SCM: stormwater UICs closure in 2003							
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	03/06/09	Overwater Activities	N/A	N/A	To be determined	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Bank Erosion	Ongoing	RI essentially completed. Eco risk scoping submitted June 2008. HH Risk Assessment to be prepared. No shoreline contamination indicated.	Fall 2009	Waiting on SCE to be completed	p Med	p Med	Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Bank Erosion - N Channel Ave Fab Area	Ongoing	Shoreline sampling completed in vicinity of stormwater outfall.	Fall 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Groundwater	Ongoing	Additional gw sampling completed.Eco risk scoping submitted June 2008. HH Risk assessment under development.	Fall 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Groundwater - N Channel Ave Fab Area	Ongoing	Additional gw investigation completed. Risk assessment to be prepared 3/2009	Fall 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Letter Agreement w/Vigor Industrial (5/06)	RI	02/23/09	Stormwater - Operable Unit 2	Ongoing	Stormwater sampling ongoing	Fall 2010	Waiting on completion of stormwater sampling	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Stormwater - N Channel Ave Fab Area	Ongoing	Risk assessment to be prepared 3/2009	Fall 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Overwater Activities - N Channel Ave Fab Area	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Overland Transport/Sheet Flow	Ongoing	Being addressed as part of stormwater eval.	Fall 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Dave Lacey	Voluntary Agreement (6/06)	RI	02/23/09	Overland Transport/Sheet Flow - N Channel Ave Fab Area	Ongoing	Risk assessment to be prepared 3/2009, Overland flow path to river is through stormwater system.	Fall 2009	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Mt Hood Chemicals	81	8.5 W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source	RI/SCE	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	N/A	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source	RI/SCE	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source	RI/SCE	03/06/09	Groundwater	Ongoing		Fall 2009	Waiting on SCE to be completed	to be determined											
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source	RI/SCE	03/06/09	Stormwater	Ongoing		Fall 2009	Waiting on SCE to be completed	to be determined											
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source	RI/SCE	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source	RI/SCE	03/06/09	Other	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5 W	4400 Block Street	Karen Tarnow	PPA	RI	03/20/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PGE Forest Park	2406	8.5 W	4400 Block Street	Karen Tarnow	PPA	RI	03/20/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5 W	4400 Block Street	Karen Tarnow	PPA	RI	03/20/09	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5 W	4400 Block Street	Karen Tarnow	PPA	RI	03/20/09	Stormwater	Ongoing	Storm line investigation report submitted 5/07	4th Qtr 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
PGE Forest Park	2406	8.5 W	4400 Block Street	Karen Tarnow	PPA	RI	03/20/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5 W	4400 Block Street	Karen Tarnow	PPA	RI	03/20/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Stormwater	Completed			Pathway is complete	Medium		EPA reviewed and commented on preliminary SCD 6/2004	alternatives evaluation completed, submitted to EPA 9/2005	stormwater catch basin in-line cleanout, stormwater BMPs, monitoring	SCM SCD finalized 11/2005. EPA commented	stormwater catch basin in-line cleanout, stormwater BMPs, monitoring		ongoing stormwater monitoring through spring 2006			
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Groundwater	Ongoing	Review of Guilds Lake Rail Yard data	To be determined	Waiting on SCE to be completed	p Low		Waiting for SCE to be completed.									
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon		Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/09/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon		Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/09/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon		Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/09/09	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		N/A		No SCM needed							

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Container Recovery	4015	8.8W	3900 NW Yeon		None	conditional NFA 2004	03/09/09	Stormwater	Deferred	Stormwater characterization	No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Container Recovery	4015	8.8W	3900 NW Yeon		Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/09/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon		Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	03/09/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Shawn Rapp	VCP Letter Agr for PA (8/00)	XPA	02/27/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Shawn Rapp	VCP Letter Agr for PA (8/00)	XPA	02/28/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Shawn Rapp	VCP Letter Agr for PA (8/00)	XPA	03/01/09	Groundwater	N/A	N/A	N/A	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Shawn Rapp	VCP Letter Agr for PA (8/00)	XPA	03/02/09	Stormwater	Ongoing	Storm water sampling per JSCS	To be determined	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed;		Storm water BMPs and filtering catch							
Christensen Oil	2426	8.9 W	3821 NW St Helens	Shawn Rapp	VCP Letter Agr for PA (8/00)	XPA	03/03/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Shawn Rapp	VCP Letter Agr for PA (8/00)	XPA	03/04/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Groundwater	Ongoing	RP needs to revise RI and SCE report	Summer 2009	Waiting on SCE to be completed	p Low		Waiting for SCE to be completed.									
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Stormwater	Ongoing	Initial stormwater characterization in progress	Summer 2009	Waiting on SCE to be completed	to be determined	p Low	Waiting on SCE to be completed									
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	03/09/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	03/30/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	03/30/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	03/30/09	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	03/30/09	Stormwater	Ongoing	DEQ reviewing SCE	Completed	to be determined	p Low		Expect to provide to EPA 2nd Quarter 2009									
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	03/30/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	03/30/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanwater and Rogers (Univar)	330	9 W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Coreective Action Order	Corrective Measures Implement	12/21/07	Overland Transport/Sheet Flow	N/A	NA	NA	NA	None		N/A									
Vanwater and Rogers (Univar)	330	9 W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implement ation	12/21/07	Bank Erosion	N/A	NA	NA	NA	None		N/A									
Vanwater and Rogers (Univar)	330	9 W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implement ation	12/21/07	Groundwater	Completed			Groundwater under control		to be determined	NA	Corrective Measures Study Completed 4/21/06	Soil Vapor Extraction and Groundwater Pump and Treat	Completed	Soil Vapor Extraction and Groundwater Pump and Treat	468,000 lbs	Optimization of SVE and Groundwater Extraction Systems/2008 through 2010			Ongoing maintenance of SVE wells, extraction wells and treatment system
Vanwater and Rogers (Univar)	330	9 W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implement ation	12/21/07	Stormwater	Ongoing	Stormwaer Pathway Evaluation	3rd quarter 2009	Waiting on SCE to be completed			NA	4th quarter 2009								
Vanwater and Rogers (Univar)	330	9 W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implement	12/21/07	Overwater Activities	N/A	NA	NA	NA	None		NA									
Vanwater and Rogers (Univar)	330	9 W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implement	12/01/07	Other																

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Loren Garner	PH Agr for RI/SCM (12/02)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Loren Garner	PH Agr for RI/SCM (12/02)	RI	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Loren Garner	PH Agr for RI/SCM (12/02)	RI	03/06/09	Groundwater	Ongoing	GW Investigation ongoing	3rd quarter 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Loren Garner	PH Agr for RI/SCM (12/02)	RI	03/06/09	Stormwater	Ongoing	SW Investigation ongoing;	3rd quarter 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Loren Garner	PH Agr for RI/SCM (12/02)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Loren Garner	PH Agr for RI/SCM (12/02)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Overland Transport/Sheet Flow - Area 1	N/A	N/A, entirely paved and/or developed	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Overland Transport/Sheet Flow - Area 2	Ongoing	DEQ review of Focused Area 2 RI report & source control screening	TBD pending DEQ's review of Focused Area 2 RI report	Pathway is complete	p High		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Overland Transport/Sheet Flow - Area 3	Ongoing	DEQ review of Focused Area 3 RI report & source control screening	TBD pending DEQ's review of Area 3 RI report	Pathway is complete	p High		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Bank Erosion - Area 1	Ongoing	Survey of erodible soils, follow-up sampling	No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Bank Erosion - Area 2	Completed			Pathway is complete	High			TBD pending DEQ's review of RI report & Gunderson recommendations.	Final SCMs TBD. Interim SCMs being considered: excavation of soil/blastsand grit, engineered sediment/grit		Interim SCM currently includes shrouding work areas during barge welding & sandblasting.					
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Bank Erosion - Area 3	Completed			Pathway is complete	High			TBD pending DEQ's review of RI report & Gunderson recommendations.	Final SCMs TBD. Interim SCMs being considered include soil excavation, selected area revegetation, and engineered bank stabilization.							
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Overwater Activities - Area 3	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Groundwater - Area 1	Completed	N/A, SCE submitted to EPA February 2003, SCMs implemented	N/A	Groundwater is a complete pathway, VOC plume migrating to/under river.	p Med		EPA comments received 5/03	Alternatives evaluation completed, EPA comments received 5/2003	Hydraulic containment and source removal using air-sparging/soil vapor extraction (AS/SVE)	SCD submitted to EPA 2/2003, EPA comments received 5/2003	P&T and AS/SVE systems installed and operating	~40 lbs. of HVOCs removed as of 7/07	Conduct SCMs effectiveness evaluation(s). Schedule TBD.			Quarterly performance monitoring and reporting
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Groundwater - Area 2	Ongoing	DEQ review of Focused Area 2 RI report & source control screening	TBD pending DEQ's review of Focused Area 2 RI report	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Groundwater - Area 3	Ongoing	DEQ review of Focused Area 3 RI report & source control screening	TBD pending DEQ's review of Area 3 RI report	Pathway is complete	p High		Waiting on SCE to be completed.									

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Stormwater - Area 1	Ongoing	Review stormwater sampling plan (10/08) and catch basin sediment sampling report (01/08)	TBD	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.		Interim SCMs being considered include, parking lot run-off collection/treatment in landscaped areas		Current BMPs include catch basin filter inserts & annual clean-out of catch basins					
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Stormwater - Area 2	Ongoing	Review stormwater sampling plan (10/08) and catch basin sediment sampling report (01/08)	TBD	Pathway is complete	p High		Waiting on SCE to be completed.		Interim SCMs being considered include, legacy sediment piping cleanouts and outfall replacement		Current BMPs include catch basin filter inserts, annual clean-out of catch basins & oil-water separators					
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Stormwater - Area 3	Completed			Pathway is complete	High			TBD pending DEQ's review of RI report and 2007/2008 storm water system sampling reports	Final SCMs TBD & interim SCMs being considered include, additional paving, legacy sediment piping cleanouts, and outfall realignment & replacement		Current BMPs include catch basin filter inserts, annual clean-out of catch basins, and paving. Improvments to piping and storm water treatment completed in subasin WR377.					
Gunderson	1155	9.0 W	4350 SW Front	Shawn Rapp	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	02/27/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Groundwater	Ongoing	Review draft Groundwater SCE	Groundwater SCE submitted	to be determined	p Low											
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Stormwater	Ongoing	Additional stormwater sampling needed	SW system cleanout completed 07', SW sampling ongoing	Waiting on SCE to be completed	to be determined				RP voluntary cleanout of stormwater system prior to completing							
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Groundwater	Ongoing		SOW under development, due (March 2009).	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Stormwater	Ongoing		SOW under development, due (March 2009).	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
Container Management	4787	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Other	N/A		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Consent Judgment	SCE	03/10/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Consent Judgment	SCE	03/10/09	Bank Erosion	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Consent Judgment	SCE	03/10/09	Groundwater	Ongoing	Complete BWUD	3rd quarter 2009	Waiting on SCE to be completed	p Low		N/A									
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Consent Judgment	SCE	03/10/09	Stormwater	Ongoing	Storm drain cleanout and sampling, soil sampling.	3rd quarter 2009	Waiting on SCE to be completed	p Low		N/A									
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Consent Judgment	SCE	03/10/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Consent Judgment	SCE	03/10/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	4784	9.3W	3250 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Overland Transport/Sheet Flow	Not Started		N/A	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
Wilhelm Trucking	69	9.3W	3250 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	69	9.3W	3251 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Groundwater	N/A	N/A	NA	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	69	9.3W	3252 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Stormwater	Ongoing	Work plan under review	4th Quarter 2010 est	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									N/A
Wilhelm Trucking	69	9.3W	3253 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08	SCE	03/06/09	Overwater Activities	N/A	N/A	NA	N/A	to be determined		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	69	9.3W	3250 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08		03/06/09	Other			No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	02/19/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	02/19/09	Groundwater	Ongoing	Evaluate potential GW impacts to sewer pipes	Spring 2009	N/A	p Low		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	02/19/09	Stormwater	Completed		2/06 SCE Report submitted	Pathway is complete	Medium		Done	SCM implementation report summer 2007	Removal of PCB contaminated sediment from onsite catch basins and pipes, new CBs/filters, new pipes, paving		1st qtr. 2007			11/25/08 Post-SCM monitoring completed		Continued BMPs
GE Decommis-sioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	02/19/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	07/15/08	Overland Transport/Sheet Flow	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none	to be determined	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	03/06/09	Bank Erosion	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	03/06/09	Groundwater	Ongoing	Continued monitoring. Workplan under development for pathway analysis.	4th Quarter 2009	Pathway is complete	to be determined		Waiting on SCE to be completed.									
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	03/06/09	Stormwater	Ongoing	Follow-up storm water monitoring per JSCS (30th Ave. side); assess connections, discharge, and potential impacts in City's 29th Ave. line. Stormwater treatment system plans under development. Proposed connection to City Combined Sewer in 2011.	4th Quarter 2009	Pathway is complete	to be determined		Waiting on SCE to be completed.		Final SCMs TBD. Interim SCMs include BMPs (yard sweeping, catch basin filter inserts), yard paving/sealing, improving operations, and reducing connections to City line(s).		Collecting/reusing Main Plant canopy roof run-off in galvanizing process (5/07), repairing/sealing pavement in NE plant yard (8/07).		Sealing unused/unecessary connections to City piping (Winter 2008), site paving and pavement sealing (Summer 2008)			

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	03/06/09	Overwater Activities	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Stormwater	Completed	N/A		No current pathway; legacy solids in storm lines to be investigated	Low	Low	Waiting on SCE completion									
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	02/19/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	02/19/09	Groundwater	Ongoing		Second Quarter 2009	Insignificant pathway; no actions recommended	p Low	p Low	Waiting on SCE to be completed; 2009									
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	02/19/09	Stormwater	Ongoing	Evaluate stormwater system	Second Quarter 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed; 2009									
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	02/19/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	03/06/09	Overland Transport/Sheet Flow	Submitted	Review document	4th Quarter 2009	SCE complete, DEQ review begin 9/08	p Low	p Low	Waiting on SCE to be completed									
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	03/06/09	Bank Erosion	Submitted	Review document	4th Quarter 2009	SCE complete, DEQ review begin 9/08	p Low		Waiting on SCE to be completed									
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	03/06/09	Groundwater	Submitted	Review document	4th Quarter 2009	SCE complete, DEQ review begin 9/08	to be determined		Waiting on SCE to be completed									
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	03/06/09	Stormwater	Submitted	Review document	4th Quarter 2009	SCE complete, DEQ review begin 9/08	to be determined		Waiting on SCE to be completed		RP cleaned out stormwater system prior to							
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	03/06/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	03/06/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	10.3 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 5/04		No SCM needed					N/A		
Goldendale Aluminum	2440	10.3 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	10.3 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed					N/A		
Goldendale Aluminum	2440	10.3 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed					N/A		

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Goldendale Aluminum	2440	10.3 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	10.3 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave	Tom Gainer	VCP	NFA	12/22/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave	Tom Gainer	VCP	NFA	12/22/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave	Tom Gainer	VCP	NFA	12/22/06	Groundwater	Completed			Insignificant pathway, no actions recommended	Low		EPA commended on SCD in 10/06	Source Control Decision and NFA issued 12/6/06								
PGE Substation E	3976	10.4 W	2635 NW Front Ave	Tom Gainer	VCP	NFA	12/22/06	Stormwater	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave	Tom Gainer	VCP	NFA	12/22/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave	Tom Gainer	VCP	NFA	12/22/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/10/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/10/09	Bank Erosion	Ongoing	None	Secpmd Quarter 2009	Waiting on SCE to be completed	p Low		N/A									
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/10/09	Groundwater	Ongoing	Need for additional characterization to be determined	Secpmd Quarter 2009	Waiting on SCE to be completed	p Low		N/A									
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/10/09	Stormwater	Ongoing	Complete SCE sampling	Secpmd Quarter 2009	Waiting on SCE to be completed	Medium	Medium	N/A		Storm line and catch basin cleanout		Cleanout completed in Oct 2006	25 tons of sludge	twice annual cleaning of catch basins		N/A	periodic inspection and maintenance; twice annual cleanout
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/10/09	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	03/10/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	FS	02/19/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	FS	02/19/09	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	FS	02/19/09	Groundwater	Completed		Summer 2009	Insignificant pathway; no actions recommended	p Low		Waiting on SW SCE to be completed									
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	02/19/09	Stormwater	Ongoing	Complete stormwater sampling by BES	Summer 2009	Waiting on SCE to be completed	p Low	p Low	Waiting on SCE to be completed									

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)									
Site information					Project status							Basis for determination that source control is needed													
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	FS	02/19/09	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	FS	02/19/09	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA did not review SCD since site was outside PH		Soil removal and management plan during development.						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pacificorp	5117	11.6 E	Multiple sites in Albina Riverlots area	Karen Tarnow	PH Agr for RI/SCM	XPA	03/30/09	Overland Transport/Sheet Flow	N/A	N/A	N/A	Insignificant pathway; no actions recommended	none											
Pacificorp	5117	11.6 E	Multiple sites in Albina Riverlots area	Karen Tarnow	PH Agr for RI/SCM	XPA	03/30/09	Bank Erosion	N/A	N/A	N/A	N/A	none											
Pacificorp	5117	11.6 E	Multiple sites in Albina Riverlots area	Karen Tarnow	PH Agr for RI/SCM	XPA	03/30/09	Groundwater	Ongoing	PA in progress; RI workplan TBD	No current schedule.	Waiting on SCE to be completed	to be determined											
Pacificorp	5117	11.6 E	Multiple sites in Albina Riverlots area	Karen Tarnow	PH Agr for RI/SCM	XPA	03/30/09	Stormwater	Ongoing	Stormwater SCE; SOW under review	12/09 est.	Waiting on SCE to be completed	to be determined											
Pacificorp	5117	11.6 E	Multiple sites in Albina Riverlots area	Karen Tarnow	PH Agr for RI/SCM	XPA	03/30/09	Overwater Activities	N/A	N/A	N/A	N/A	none											
Pacificorp	5117	11.6 E	Multiple sites in Albina Riverlots area	Karen Tarnow	PH Agr for RI/SCM	XPA	03/30/09	Other	N/A	N/A	N/A	N/A	none											

DEQ Milestone Report
Information about the Source Control Table

Use Of This Sheet

This spreadsheet is intended to track and share information regarding the status of current and potential future upland source control measures. Information is logged by the status of the evaluation in each pathway. The following pathways are included: overland transport, back erosion, groundwater, stormwater, overwater activities, and other (see definitions below). Site included in this spreadsheet are currently being investigated under DEQ oversight or a recent source control decision made for the facility. For more information on these sites please visit DEQ's Environment Cleanup System Information (ECSI) database at http://www.deq.state.or.us/wmc/ECSI/ecsiquery.htm

Definitions

Potential contaminant migration pathways

Overland Transport = Uncontrolled sheet flow of water and other material to the river from a site.

Bank Erosion = Erosion of material within the sloping bank areas of the site to the river.

Groundwater = Groundwater plumes or discharges to the river either via seeps or through preferential pathways.

Stormwater = Stormwater discharges to the River that originates from a pipe (permitted or unpermitted).

Overwater Activities = The storage or use of hazardous substances over the water (i.e., storage tanks on docks, permanent work activities conducted over water), that if released would be a ptotential current or future source of contamination to the river. Pipelines and other conveyance systems are not considered in this category. Releases from these types of systems need to be reported to the state Oregon Emergency Response System (OERS) system.

Other = Pathway examples: wastewater discharges, air deposition, direct discharges.

Priority levels for pathways and sites

High = High priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is significantly impacting the river or poses a significant and imminent threat to the river based on initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS). A primary consideration is that one or more media (soil, water, air) significantly exceed applicable Screening Level Values (SLVs) at the point of discharge to the river (e.g., water at the end of a discharge pipe, or soil or material at the riverbank) or the most reliable and cost-effective data point (e.g., groundwater measured at the shoreline), or where a bioaccumulative chemical is detected at concentrations significantly above the SLV. In addition, if an upland source is violating DEQ narrative water quality criteria for the Willamette River, the site may be considered a high priority. High priority sites are expected to move forward with aggressive source control measures without delay or be subject to enforcement action.

Medium = Medium priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is impacting the river or poses a significant and/or imminent threat to the river based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS). A primary consideration is that one or more media exceed applicable SLVs, but not significantly, at the point of discharge to the river, or where a bioaccumulative chemical is detected at concentrations above the SLV. Although exceedance of SLVs does not necessarily indicate a site poses a significant and/or imminent threat or needs to immediately implement source control measures, it does indicate that the site may pose a threat to human health or the environment and that additional evaluation may be needed to determine if source control measures are required to prevent, minimize or mitigate the migration of hazardous substances to the river. If the site exceeds one or more SLVs, the need for further characterization or for implementation of source control measures will be based on a site-specific weight-of-evidence determination. Medium priority sites are expected to perform a weight-of-evidence evaluation to determine if source control measures are required.

Low = Low priority pathways and sites are those where upland data indicate, based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS), that the site likely poses a low threat to the river (e.g., concentrations are near or below SLVs) or where DEQ, in consultation with EPA, may issue an upland "No Further Action" (NFA) determination or lower the State's priority of the site for further upland investigation or remedial action under DEQ's cleanup authority. Source control measures will not be required at low priority sites unless determined necessary by the results of the Portland Harbor RIFS or ROD.

p High = DEQ's preliminary determination is that this is likely a high priority pathway or site based on available information; pending formal source control evaluation determination.

p Med = DEQ's preliminary determination is that this is likely a medium priority pathway or site based on available information; pending formal source control evaluation determination.

p Low = DEQ's preliminary determination is that this is likely a low priority pathway or site based on available information; pending formal source control evaluation determination.

Shading

= Upland Source Control Decision has been completed for the specified pathway at this site.

DEQ Milestone Report
Information about the Source Control Table

Pick Lists

Pick lists are used to faciliate the addition of information to the spreadsheet. A pick list is a list that can be used by the project manager to select an entry from a group of designated choices. Pick lists will appear as a pull down menus in the lower right corner for the following fields: *Project status, Status of SCE, Schedule for Completing SCE, Completeness of pathway to the river, Pathway priority level, Site priority level, Source control alternatives evaluation and schedule, Selected SCMs, Mass or volume of contaminants controlled,* and *Operation and maintenance requirements*. The pick lists for these fields are shown below.

Project Status
PA
XPA
RI
FS
RD / RA
NFA
PPA
CNFA

Status of SCE
Ongoing
Not Started
Pending EPA Review
Completed
N/A

Schedule for completing SCE
No current schedule.
SOW under development, due (type
SOW currently being implemented.
(PM description of schedule)
N/A

Pathway determination
Pathway is complete
Insignifcant pathway; no actions recommended
Waiting on SCE to be completed
No known current sources (spills will be reported to OERS)
(PM description of source and pathway)
N/A (use when the pathway does not exist at the site)

Alternatives evaluation and schedule
no alternatives evaluation needed
schedule for completing draft evaluation report:
schedule for completing final evaluation report: (m/y)
evaluation to be part of upland FS; schedule for completing draft/final: (m/y)
alternatives evaluation completed (m/y)

Priority level
High
Medium
Low
p High
p Med
p Low
to be determined
none (use if SCE determined the pathway to be incomplete)

Status of EPA "Partners" Review of SCA Decision
EPA reviewed and commented.
Review Pending. SCA submitted (type date).
SCA to be submitted on (type date).
Public Comment period (type date) to (type date).
SCA submitted to EPA (type date). No comments.
N/A

Status of EPA review of SCE decision
Review pending; SCE submitted (m-y)
Waiting on SCE completion (m-y)
SCE to be submitted to EPA on (m-y)
To be determined
SCE submitted to EPA (m-y); no comments
N/A

Selected SCMs
No SCM needed
(PM description of SCMs)
N/A

Operation and Maintenance requirements
periodic inspection and maintenance
effectiveness monitoring
site use restrictions
(PM description of operation/maintenance requirements)
none

Mass/Volume of contaminants controlled
cubic yards of soil removed
square feet of area capped
linear feet of plume controlled at riverbank
linear feet of riverbank stabilized
gallons of product recovered
(PM description of mass/volume/area controlled)

DEQ Milestone Report
Information about the Source Control Table

Acronyms & Abbreviations

Agr	Agreement
AOC	Administrative Order on Consent
AS/SVE	Air sparge soil vapor extraction
AST	Above ground Storage Tank
BMPs	Best Management Practices
BRA	Baseline Risk Assessment
CNFA	Conditional No Further Action
ECSI	Environmental Cleanup Site Information
FS	Feasibility Study
GW	Groundwater
IGA	Inter-Governmental Agreement
JSCS	Joint Source Control Strategy
NA	Not Applicable
NFA	No Further Action
OF	Outfall
p&t	Pump & Treat
PA	Preliminary Assessment
PH	Portland Harbor
PH Agr	Portland Harbor Agreement - a formal agreement for a RI and SC
PH Ltr Agr	Portland Harbor Letter Agreement - an initial contract covering DEQ oversight costs and limited investigation and cleanup activities
PM	Project Manager
PPA	Prospective Purchaser Agreement
RD/RA	Remedial Design/Remedial Action
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
SC	Source Control
SCD	Source Control Decision
SCM	Source Control Measure
SLV	Screening Level Value
SOW	Scope of Work
SVE	Soil Vapor Extraction
TCA	Trichloroethane
UST	Underground Storage Tank
WO	Waiting on
XPA	Expanded Preliminary Assessment

DEQ Project Managers' Phone Numbers

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DEQ Source Control Decisions
Current and Potential Upland Sources to the River

Site Location Key

Link to map of sites:
http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/docs/PortlandHarborMap.pdf

Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
GS Roofing	Bird & Son, Certainteed Corporation, Fibreboard Corporation	117		7.5	6350 NW Front
Guilds Lake RR Yard	Burlington Northern Santa Fe Railroad Lake Yard, Guilds Lake Railyard, Kleen Blast Abrasives, Lake Yard, Portland Terminal Railroad Guilds Lake Yard	100		9	3500 NW Yeon
Gunderson		1155	2372, 2425	9.0	4350 SW Front
Mt. Hood Chemical	Former Chemical Warehouse RI/SC	81		8.5	4444 NW Yeon
Jefferson Smurfit	Burgard Industrial Park	2371		3.7	9930 N Burgard
Kinder Morgan	GATX, GATX Linnton Terminal, GATX St. Helens Road Facility	1096		4.2	11400 NW St Helens
Lakeside Industries		2372	1155	8.4	4850 NW Front
Linnton Oil Fire Training Grounds		1189		3.6	NW Marina Way
Linnton Plywood		2373		4.6	10504 NW St Helens
Mar Com Marine (N Parcel)	L & S Marine, Mar Com Marine Ways, Marine Machine Works (Former), Nichols Marine Ways Inc., Riverside Lumber Co. (Former)	2350		5.6	8790 N Burgard
Mar Com (S Parcel)	St. Johns Langley LLP, Brix (current owner), L & S Marine, Mar Com Marine Ways (former owner), Marine Machine Works (Former), Nichols Marine Ways Inc., Riverside Lumber Co. (Former)	2350		5.8	8790 N Burgard
Marine Finance	Hendren Tow Boat, REH Inc., Riverside Industrial Park, Advanced American	2352		5.8	8444 NW St Helens
McCall Oil	Great Western Chemical, Quadra Chemicals	134		7.8	5550 NW Front
McCormick & Baxter		74		7	6900 N. Edgewater Street
NW Pipe	Northwest Pipe Company	138		3.9	12005 N Burgard
Oregon Steel Mills	Gilmore Steel Corp. - Rivergate	141		2.2	14400 N Rivergate
Owens-Corning Fiberglass	Trumbull Asp, Kingsley Park, Linnton Planing Mill, Paramount Petroleum Site	1036		3.8	11444 NW St Helens
Pacificorp		5517		11.6	various
Paco Pumps		146		9.6	2551 NW 30th
PGE Harborton		2353		3.2	NW Marina Way
PGE Forest Park		2406		8.5	4400 Block NW St. Helens Road
PGE Station E		3976		10.4	2635 NW Front Ave.
Port of Portland Auto Storage Area (ASA)	Toyota	2642		5.0	10400 Lombard
Portland Shipyard	Cascade General, Swan Island Upland Facility, North Channel Ave Fabrication, Berth 311	271		8.4	Swan Island
Premier Edible Oils	C & T Quincy Foods (SEE ECSI 2355), Schnitzer Investment Corp.	2013	2355	3.6	10400 N Burgard

DEQ Source Control Decisions
Current and Potential Upland Sources to the River

Site Location Key

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Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
ACF Industries	American Car Foundry, EMC Industries - ACF Car, Pacific Metal Substations, Inc., Richmond Tank Car and Manufacturing Co.	794		3.6	12160 NW St Helens
Air Liquide	Schnitzer Investment - Doane Lake	395		7.2	6529 NW Front Ave.
Anderson Brothers		970		8.9	5275 & 5315 NW St. Helens Road
Atofina	Arkema, Elf Atochem North America, Pennwalt Chemical Corp.	398		7.2	6400 NW Front
BP Terminal 22T	ARCO, ARCO Linnton Terminal, BP Atlantic Richfield Company	1528	2373, 2351	4.8	9930 NW St Helens
Brix Maritime	Foss Maritime Co., Knappton Corp.	2364		5.5	9030 NW St Helens
Calbag Metals	ACME Trading and Supply	2454	2425	8.5	4927 NW Front
Chevron Asphalt		1281		8	5501 NW Front
Christensen Oil	HAJ, Incorporated	2426		8.9	3821 NW St Helens
City of Portland Outfalls		2425		3.5 to 9.2	various
Columbia American Plating		29		9.3	3003 NW 35th Ave.
Con-Metco		3295		2.8	3940 N Rivergate
Container Management		4784		9.3	300 N. Basin
Container Recovery		4015		8.8	3900 NW Yeon
Crawford Street Corp	Columbia Forge & Machine Works, Lampros Steel - 8524 N Crawford, TLS Steel - 8514 N Crawford	2363		6.3	84248 N Crawford
Esco Landfill		4409		NA	14444 NW Gilliam Loop Rd.
Exxon Mobil	ExxonMobil Bulk Plant, ExxonMobil Terminal, Mobil NuStar Oil Bulk Plant - St. Helens RD, Shore Terminals, ST Services, Olympic Pipeline	137		5.1	9420 NW St Helens
Fred Devine	Pacific Coast Environmental, The Marine Salvage Consortium Inc	2365		8.3	6211 N Ensign
Freightliner (Parts Manufacturing Plant)	a.k.a. Freightliner Truck Manufacturing Plant II	115		9.2	5400 N Basin
Freightliner (Truck Plant)		2366		8.3	6936 N. Fathom
Front Ave LP	CMI Northwest, Hampton Lumber Sales, Glacier NW (former Lone Star), Tube Forgings of America,	1239	2378	8.2	4950, 5034 & 5200 NW Front
Galvanizers Company		1196	2425	9.6	2406 NW 30th Ave.
Gasco	NW Natural, Koppers Co. - Portland, Pacific Northern Oil Co.,	84	183	6.4	7900 NW St Helens
Gasco/Siltronic Corp.	Siltronic Corporation, Walker Siltronic	183	84	6.6	7700 NW Front
GE Decommissioning		4003	2425	9.5	2727 NW 29th Ave.
Georgia Pacific Linnton	Georgia-Pacific / Western Wood Prods Manuf Divn, Georgia-Pacific West, Morge Bros.	2370		3.5	12222 NW Marina
Goldendale Aluminum	Ash Grove Cement, Columbia Aluminum, Martin Marietta, Golden NW Aluminum	2440		10.3	2600 N River
Gould Electronics	NL Industries	49		7.5	5909 NW 61st Ave.

DEQ Source Control Decisions
Current and Potential Upland Sources to the River

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Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
Siltronic Corp. TCE Investigation	Siltronic Corporation, Walker Siltronic	183		6.5	7200 NW Front
Sulzer Pump	Bingham International, Bingham Willamette, Sulzer Pumps, Inc.	1235		10.4	2800 NW Front
Terminal 1 North	BES- Nicolai Shaff	3377		10.6	2200 NW Front
Terminal 2		2769		10	3556 NW Front
Terminal 4 Slip 1	IRM, Cargill	2356		4.3	11040 N Lombard
Port of Portland - Terminal 4 Slip 3	Hall-Buck Marine Inc., Oregon Terminal Company (OTC), OTC Gearlock Maintenance Facility (Former), Quaker State Oil Co., UPRR - Product Transfer Pipeline (Former)	272		4.6	10400 Lombard
Terminal 5	Oregon Steel Mills Slag Pile, Port of Portland - Terminal 5, Blue Lagoon	1686		1.5	15540, 15550, & 15560 N Lombard
TexacoTerminal	Equilon, Shell, Texaco Product Pipeline	169	2117	8.7	3800 NW St Helens
Time Oil (Northwest Terminal)	Bell Terminal	170		3.4	10350 Time Oil Rd
Triangle Park (N PDX Yard)	North Portland Yard, Riedel Environmental Services - N Portland Yard, Sakrete of the Pacific Northwest, Inc., Western Pacific Dredging/Drilling/Piledriving/etc., Willamette-Western Company, World Security Services Company	277		7.5	5828 N Van Houten
UPRR Albina	Albina Rail Yard, Union Pacific RR - Albina Yard	178		10.3	2745 N Interstate
UPRR St Johns Tank Farm	Union Pacific RR - St. Johns Tank Farm, UPRR - Product Transfer Pipeline (Former), UPRR Fuel Loading Facility (Former), Port of Portland Terminal 4 Slip3	2017		4.6	6908 N Roberts
USCG	US Coast Guard - Portland Station	1338		8.2	6767 N Basin Ave.
US Moorings		1641		6.2	8010 NW St. Helens Rd.
Willamette Cove		2066		6.8	Foot of N Edgewater
Willbridge	Kinder Morgan, Chevron, ConocoPhillips, GATX - Willbridge Terminal, Tosco - Willbridge Terminal, Unocal - Willbridge Terminal	1549		7.7	Front Ave & NW Doane
Vanwater and Rogers	Univar	330		9	3950 NW Yeon Ave.
Willamette Cove		2066		6.8	Foot of N Edgewater

DEQ Source Control Decisions
Current and Potential Upland Sources to the River

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Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
Rhone Poulenc	East Doane Lake, Aventis Crop Science, Rhone Poulenc Agricultural Company	155		7	6200 NW St Helens
Riverscape	Port of Portland T1S	2642		10.9	2100 NW Front
Schnitzer Steel	Schnitzer Steel Part of Industrial Park DEQ Site	2355		4	12005 N Burgard
Schnitzer Burgard	International Terminals, North Burgard Industrial Park	2355		3.8	12005 N Burgard
Schnitzer Kittridge	Asset Recovery, Schnitzer Investment Corp	2442		8.3	4959 NW Front
Shaver Transportation		2377		8.4	4900 NW Front

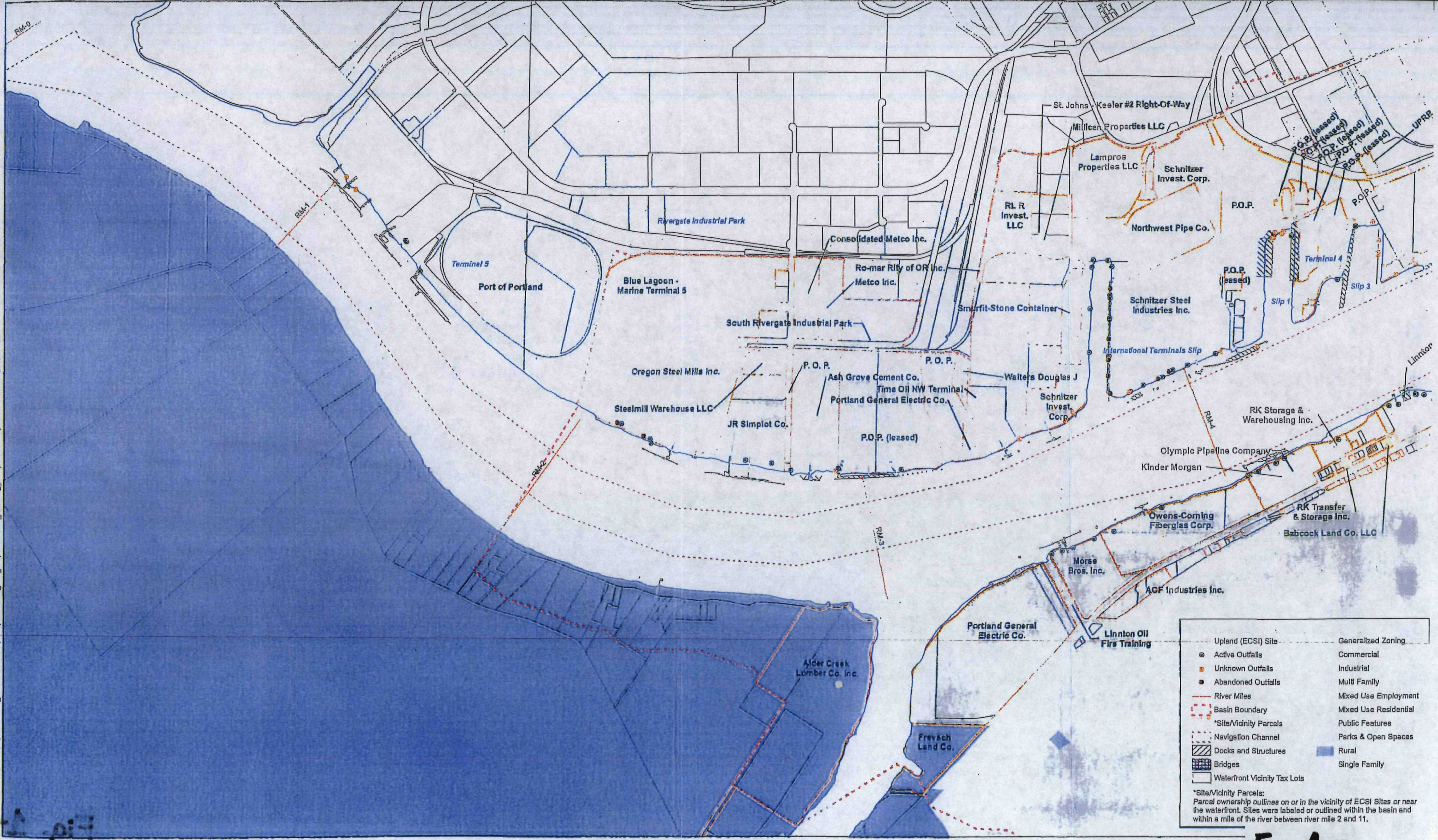
Status of High Priority Sites

Table 2

	Site	River Mile	High Priority Pathway	Source Control Evaluation	Selection of Source Control Measure	Implementation of Source Control Measure	Remarks
1	Oregon Steel Mills	2.2E	Bank erosion	Complete	-Currently considering re-design incorporating bioengineering based largely on satisfying ESA concerns	-Summer 2010	
			Stormwater	Complete	-Complete	-End-of-pipe treatment system operating since summer '07. System being optimized & plans for loading evaluation in '09-'10 water year.	
2	City Stormwater Outfalls	Various	Stormwater	Ongoing (2009)			-Iterative approach done on basin-by-basin basis. -Objective of SCE is to identify up-pipe sources.
3	Premier Edible Oil	3.6E	Groundwater	Ongoing (to be determined)			-Field work supporting SCE complete
4	Schnitzer Burgard Industrial Park	3.8E	Stormwater	Ongoing (4th Qtr '10)			
			Overland Transport	Ongoing (4th Qtr '10)			
5	Schnitzer Steel	4.0E	Stormwater	Ongoing (4thQtr '10)	-Currently considering new comprhensive stormwater mgmt plan		
			Overland Transport	Ongoing (4th Qtr '09)	-Currently considering dock re-engineering improvements to cature sheet flow.		
6	Kinder Morgan (former GATX)	4.2W	Groundwater	Ongoing (2nd Qtr '09)	-GW pump & treat system in-place -SCE designed to enhance existing interim GW SCM		
7	BP/Arco	4.8W	Groundwater	Complete	-Barrier wall & enhanced GW pump & treat system in-place -Riverbank & nearshore sediment removal selected	-RP started SCM in summer '07 Fish Window & completed work fall '08 removing 13,000cy of contaminated soil/sediment.	
8	Exxon/Mobil	5.1W	Groundwater	Complete	Complete	Complete	-SCM selected in 1997 DEQ ROD onging. -Further SCMs are being studied & enhanced
9	MarCom South	5.8E	Overland Transport	Currently reviewing SCE			-RP removed sand blast grit piles in fall '08 as part of "housekeeping" effort
10	Gasco	6.4W	Groundwater	Complete	-SCM Eval report (FFS) submitted 10/07	-Designing vertical barrier wall/extraction well SCM. -SCM construction anticipated to begin 4th Qtr '09	
			Bank erosion	Complete	-Coordinate with in-water Early Action		
11	Gasco (Siltronic)	6.6W	Groundwater	Currently reviewing Segment 3 SCE	-SCE for Segement 1 completed -SCE for Segment 3 received 4th Qtr '08		-Gasco MGP waste on the Siltronic property
12	Siltronic	6.5W	Groundwater	Complete	-SCM Eval report (FFS) submitted 10/07 -Enhanced in-site bioremediation (EIB) SCM applied fall '08.	-EIB recently also applied in source area. -SCM effectiveness monitoring ongoing	-RP proposes EIB treatment near riverbank
13	Rhone Poulenc	7.0W	Groundwater	Ongoing (4th Qtr '09)	-RP is currently conducting long-term pilot texting for potential pump & treat SCM.		
14	Arkema	7.2W	Groundwater	Complete	-Revised FFS for barrier wall & hydraulic received 2008. -DEQ selected wall/extration well SCM. received 2008. DEQ selected wall/extraction	-SCM constrcution scheduled to begin 2010.	-RP implemented series of pilot & full-scale SCMs
			Stormwater	Complete	-Draft Stormwater FFS in review	-SCM construction scheduled to begin 2010.	
			Bank erosion	Complete			-To be integgrated into in-water Early Action
15	Willbridge	7.7W	Groundwater	Complete (except for deep GW)	Complete	Complete	-Ongoing GW pump & treat SCMs -Further SCMs are being studied & enhanced
16	Gunderson	9.0W	Groundwater	-TDB, pending DEQ review of RI Report			-Ongoing GW pump & treat SCM in Area 1
			Stormwater	-TBD, pending DEQ review of RI Report			
			Bank erosion	-TBD, pending DEQ review of RI Report			
			Overland runoff	-TDB, pending DEQ review of RI Report			

Notes: 1) Date in parentheses is expected date of completion
2) Source Control Evalaution (SCE)

Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Sites_and_Properties\Site_Labeling_Template4.mxd) 1/31/2007 -- 2:50:37 PM



FEATURE SOURCES:
Transportation, Property, Zoning, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
Outfalls: City of Portland, April 2006.

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Fig. 1-a

C

Land Zoning and Ownershir

Upland (ECSI) Site
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
River Miles
Basin Boundary
*Site/Vicinity Parcels
Navigation Channel
Docks and Structures
Bridges
Waterfront Vicinity Tax Lots

*Site/Vicinity Parcels:
Parcel ownership outlines on or in the vicinity of ECSI Sites or near the waterfront. Sites were labeled or outlined within the basin and within a mile of the river between river mile 2 and 11.

Generalized Zoning
Commercial
Industrial
Multi Family
Mixed Use Employment
Mixed Use Residential
Public Features
Parks & Open Spaces
Rural
Single Family

St. Johns - Keeler #2 Right-Of-Way
Millcan Properties LLC
Lampros Properties LLC
Schnitzer Invest. Corp.
Northwest Pipe Co.
P.O.P.
P.O.P. (leased)
UPRR - St. Johns Tank Farm
Multnomah County - St. Johns Site
Unocal Service Station #3911 (Former)
Steel Hammer Properties LLC
Brix De Armond LLC
Langley-St. Johns Partnership
P.O.P. (leased) Auto Storage
City of Portland
Slip 1
Terminal 4
Slip 3
Linnton Plywood Assn.
Columbia River Sand & Gravel Inc.
Olympic Pipe Line Portland Delivery Facility
Shore Terminals LLC
BP West Coast Products LLC
Exxon Mobil Oil Corp.
Brix Maritime Co.
Hendrex Tow Boats
United States of America
Advanced American Const.
Transloader International
Northwest Natural Gas Co.
Koppers Industries Inc.
Petroleum Release - N Edgewater St
McCormick & Baxter Creosoting Co.
Triangle Park LLC
Metro
Willamette Cove
RM-7
RM-6
RM-5
RM-8
Freightliner Corp. (TMP)
The Marine Salvage Consortium
US Coast Guard
USA
University of Portland
Portland
McCall Oil Real Estate
Zidell, Emery
Willbridge Terminal
Tanker Basin LLC
GWC Properties LLC
P.O.P. (leased)
Willbridge Bulk Fuel
Arkema Inc.
Genstar Roofing Co Inc.
Schnitzer Invest. Corp.
Siltronic Corp.
ESCO Corp. - Willbridge Landfill
Nikko Materials Usa Inc.
Starlink Logistics Inc.
Kinder Morgan
Chevron USA Inc.
Paramount of Oregon Inc.
ConocoPhillips Co.
Willbridge Yard
BNSF Railway Co.
Anderson Bros. Inc.
Schnitzer Invest. Corp
Kesef Development LLC et
Mt. Hood Chemical P
Southern Pacific Pipe Lines
Metro Central Transfer Station
V&K Service

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Transportation, Property, Zoning, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
Outfalls: City of Portland, April 2006.

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Fig 1-6

Land Zoning and Ownership

Roadway Express
Mock's Bottom
Sunny's Dry Cleaners - Portland
Henry Wong
Pacific Power & Light - Mason Substation
Flowers by Victor
Betty Campbell Building
Nunberg Scientific Co.
Freightliner Corp. (TMP)
Island Holdings Inc.
GI Trucking
Fred Meyer - Swan Island
Freightliner Corp (PMP)
Freightliner Corp.
City of Portland
Industrial Battery Building
Oregon Washington Railroad & Navigation Co. (UPRR Albina Yard)
The Marine Salvage Consortium
ATC Leasing Co.
Becker Land LLC
US Coast Guard
P.O.P.
USA
Swan Island Lagoon
Freightliner Corp.
Anchor Park LLC
P.O.P. (leased)
Automatic Vending
P.O.P.
City of Portland
Ash Grove Cement Co.
Herman, Stan
Sakrete of Pacific NW
P.O.P.
University of Portland
Portland Shipyard LLC
Crosby & Overton
P.O.P. (leased)
P.O.P.
P.O.P.
RM-10
RM-11
Willamette River Westside CSO Construction
Salzer Pumps (US) Inc.
City of Portland
Apollo Dev. Inc.
Ralston, TR
Ralston, Tim
Rivers-cape LLC
Dolan and Co. LLC
P.O.P.
Terminal 2
Balch Creek Cove
Basic International Corp.
PGE Station E
States Battery Co.
Zehrung Corp. (Former)
Front Avenue MP
Sause Bros. Inc.
Williams, Cindy
Ivicy 3rd Generation Corp.
RM-8
RM-9
Equilon Enterprises LLC
McCall Oil Real Estate
Front Ave. LP (LSD Glacier NW)
Front Ave. LP (LSD Tube Forgings)
Zidell, Emery
Shaver Transportation Co.
Gunderson LLC
Gunderson LLC
Portland Terminal Railroad Co. (B.N.S.F. Lake Yard)
Hercules Inc.
ODOT - Surplus Property
Groundwater - NW 22nd AVE
Guilds Lake
Longview City Laundry & Cleaners
King-Ries Property
Consolidated Freightways Inc.
Willbridge Terminal
Tanker Basin LLC
Front Ave. LP (LSD CMINW)
Lakeside Industries
Texaco Product Pipeline
Nudelman & Son Inc.
Mercer Industries - Portland
GWC Properties LLC
P.O.P. (leased)
Willbridge Bulk Fuel
Gundersen LLC
Zidell, Emery
Wirts Don
American Machine and Gear
ESCO Plant #3
Drew Paints, Inc.
Dura Industries
Mt. Hood Chemical Corp.
Container Recovery
Owens-Corning Fiberglas Corp.
General Electric Co.
Schmitt Forge
Cornerstone Property
Hill Investment Co.
Mogul Corp.
Paco Pumps
Galvanizers Co.
Paramount of Oregon Inc.
Kinder Morgan
Chevron USA Inc.
Van Waters & Rogers Inc.
ANRF8 Holdings Inc.
Carson Oil - NW 35th AVE
Equilon Enterprises LLC
ConocoPhillips Co.
Willbridge Yard
Lakes Corp.
Anderson Bros. Inc.
Schnitzer Invest. Corp.
Kasef Development LLC et al.
Mt. Hood Chemical Property
Brazil & Co.
HAJ Inc.
Magnus Co.
Armstrong Disposal Company
PGE - Forest Park Property
Metro Central Transfer Station

Upland (ECSI) Site	Generalized Zoning
Active Outfalls	Commercial
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River Miles	Mixed Use Employment
Basin Boundary	Mixed Use Residential
*Site/Vicinity Parcels	Public Features
Navigation Channel	Parks & Open Spaces
Docks and Structures	Rural
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Waterfront Vicinity Tax Lots	

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Fig 1-C

Land Zoning and Ownership